

PROPOSED SITE PLAN DOCUMENTS

FOR PROPOSED McDonald's WITH DRIVE-THRU LOCATION OF SITE 808 MAIN STREET, MILLIS NORFOLK COUNTY, MASSACHUSETTS MAP #24, LOT #3

APPROVAL BLOCK

PLANNING BOARD APPROVAL

APPROVED BY THE PLANNING BOARD OF THE TOWN OF MILLIS, MASSACHUSETTS.

DATE APPROVED 12/14/2022 DATE ENDORSED 2/8/2022

PLANNING BOARD CHAIR DATE 2/8/22

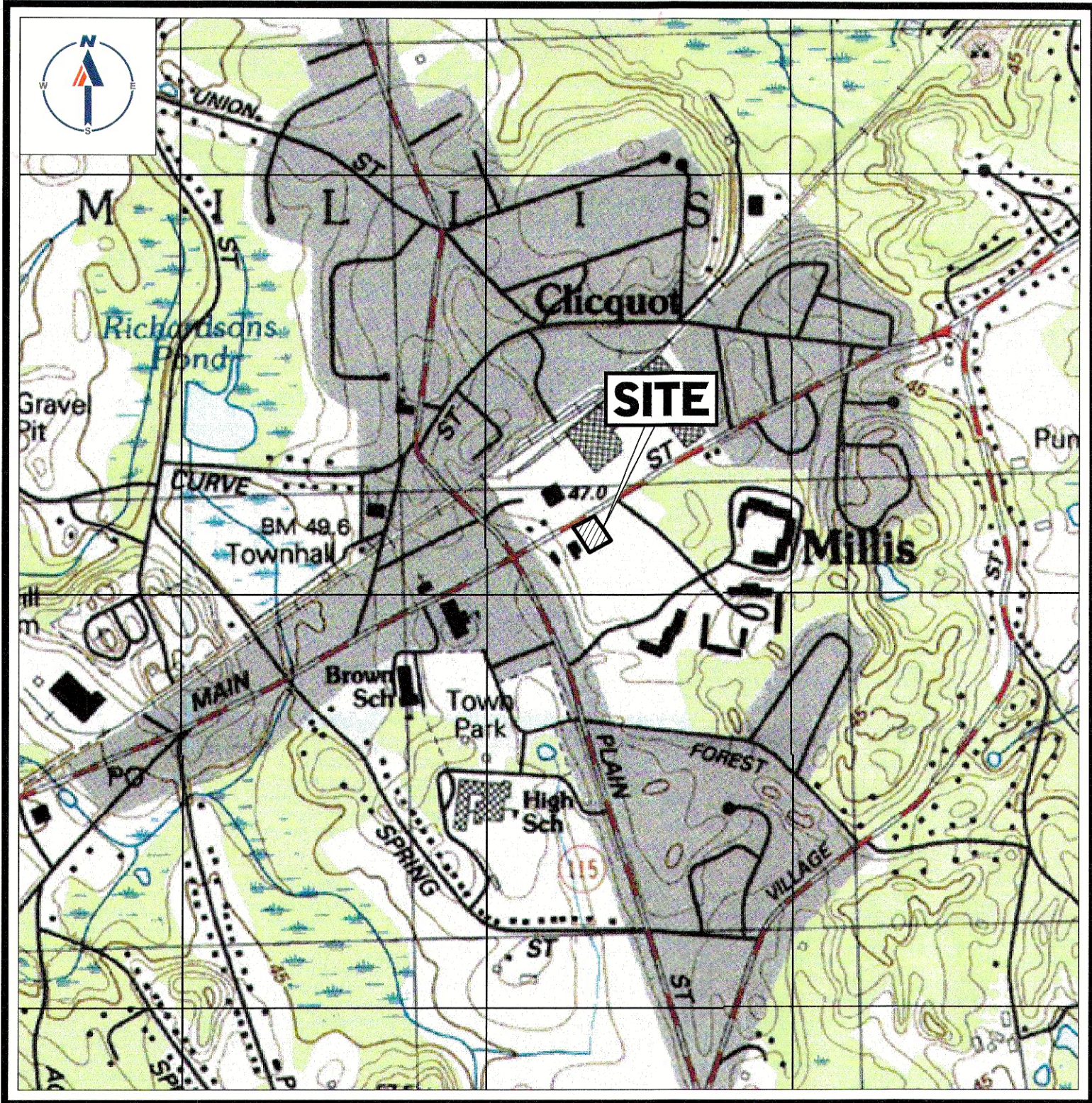
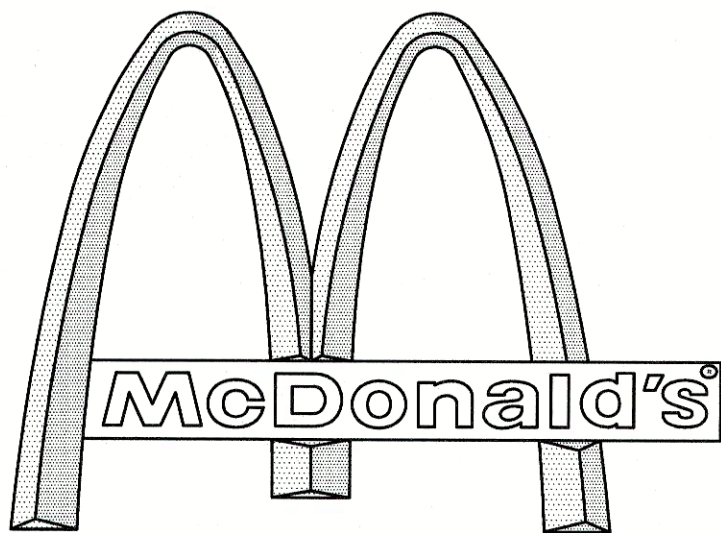
PLANNING BOARD CLERK DATE 2/8/22

PLANNING BOARD MEMBER DATE 2/8/22

PLANNING BOARD MEMBER DATE 2/8/22

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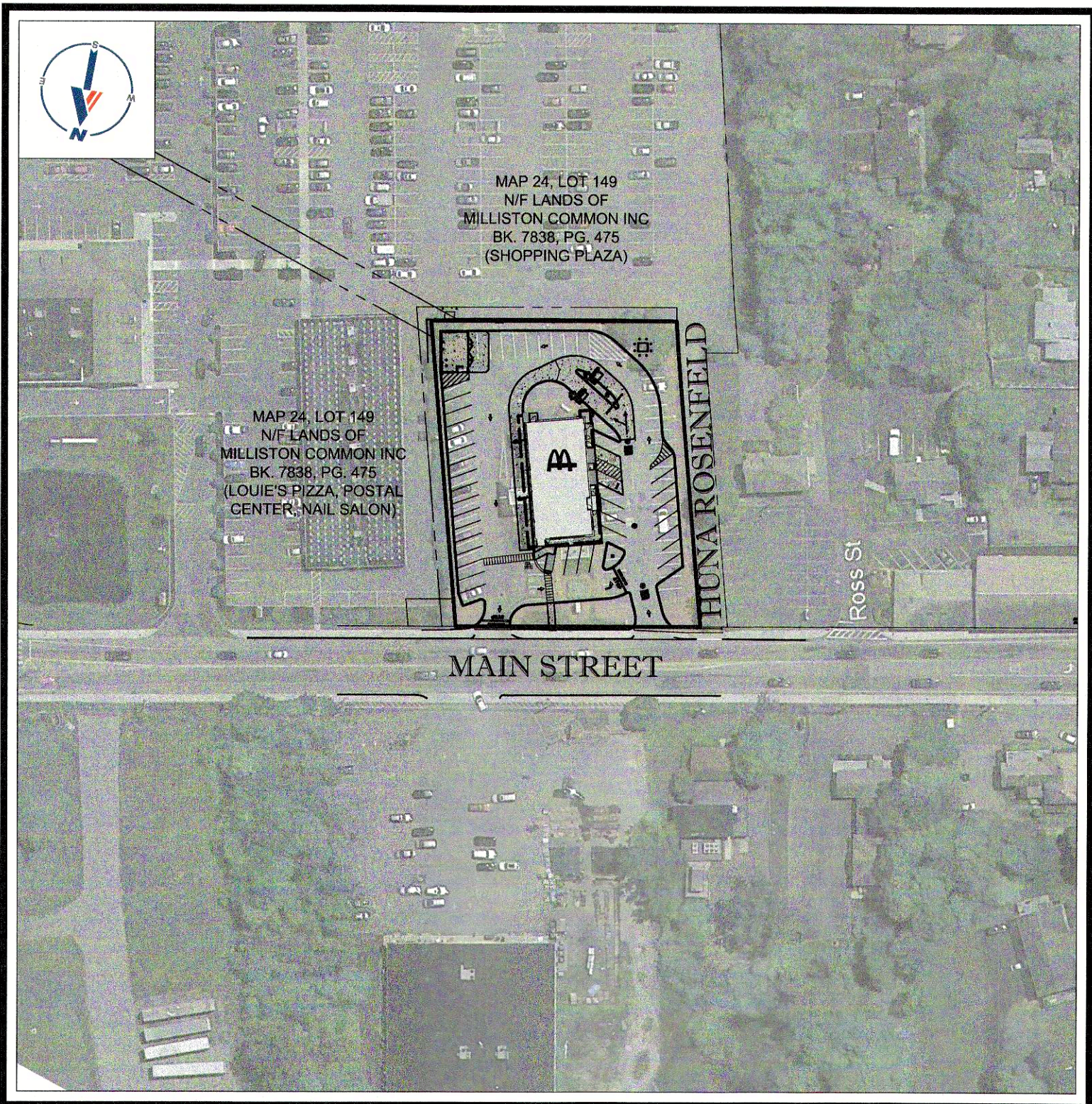
PLANNING BOARD MEMBER DATE 2/8/22



USGS MAP

SCALE: 1" = 1,000'

SOURCE: MEDFIELD MASSACHUSETTS USGS QUADRANGLE



SITE MAP

SCALE: 1" = 100'

SOURCE: GOOGLE AERIAL

DRAWING SHEET INDEX

SHEET TITLE	SHEET NUMBER
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ALTA SURVEY (BY OTHERS)	1 OF 1
ARCHITECTURAL ELEVATIONS (BY OTHERS)	A2.0
ARCHITECTURAL ELEVATIONS (BY OTHERS)	A2.1

BOHLER

SITE CIVIL AND CONSULTING ENGINEERING

LAND SURVEYING

PROGRAM MANAGEMENT

LANDSCAPE ARCHITECTURE

SUSTAINABLE DESIGN

PERMITTING SERVICES

TRANSPORTATION SERVICES

COMPLIANCE CHECK DATE

CONSTRUCTION CHECK DATE

CONSTRUCTION CHECK DATE

PROJECT No.: W212011

CAD I.D. #: W212011-CVL-4.dwg

- GENERAL NOTES:**
- BASES, ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL OTHER SIGNS ARE BY THE GENERAL CONTRACTOR.
 - 3/4" EMPTY CONDUIT TO LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE GENERAL CONTRACTOR. LIGHTING FIXTURES, BASES, POLES, CONDUIT, AND WIRING ARE BY THE OWNER/OPERATOR.
 - BASES FOR FLAGPOLES ARE BY THE GENERAL CONTRACTOR. ANCHOR BOLTS ARE BY THE FLAGPOLE SUPPLIER.
 - PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL INSTALLATION.
 - THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
 - ALL ELEVATIONS SHOWN ARE BASED UPON, NAVD 88 PER SURVEY NOTE #7.
 - ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISH GRADING, LANDSCAPING, AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR.
 - LOT LIGHTING CONCRETE FOOTINGS TO CONFORM WITH THE SOILS REPORT RECOMMENDATIONS FOR THIS PARTICULAR SITE. FOUNDATION DESIGN AND CONSTRUCTION IS BY THE GENERAL CONTRACTOR.

PAVING SPECIFICATION
(SEE PAVEMENT DETAIL)

FLEXIBLE PAVEMENT SECTION:
-1.5" M3.11.03 TABLE A 2 TOP COURSE
-2.0" M3.11.03 TABLE A BINDER COURSE
-12.0" M2.01.07 DENSE-GRADED CRUSHED STONE GRANULAR SUBBASE

RIGID PAVEMENT SECTION:
-6.0" 4000 PSI AIR-ENTRAINED CONCRETE
-12.0" M2.01.07 DENSE-GRADED CRUSHED STONE GRANULAR SUBBASE

NOTE: FINAL PAVEMENT SPECIFICATIONS TO BE COORDINATED WITH GEOTECHNICAL REPORT RECOMMENDATIONS. McDONALD'S ENGINEER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE. IF TESTS PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF McDONALD'S, OTHERWISE, G.C. WILL BE CHARGED.

LOT LIGHTING SUPPLIED BY

SECURITY LIGHTING SYSTEMS
2100 GOLD ROAD
ROLLING MEADOWS, IL 60008
(800) 544 4848

NOTE: ELECTRICAL CONTRACTOR TO CIRCUIT LOT LIGHTING AS NOTED.

PARKING INFORMATION

TOTAL SPACES	21 PROPOSED SPACES	9.0' x 21.0' @ 75°
	13 PROPOSED SPACES	9.0' x 21.0' @ 60°
	2 PROPOSED ACCESSIBLE SPACES	8.0' x 21.0' @ 60°

UTILITY INFORMATION

	SIZE	TYPE	LOCATION
SANITARY SEWER	VARIES	PVC	ON-SITE
WATER	VARIES	DI	MAIN STREET
STORM SEWER	VARIES	HDPE	ON-SITE
ELECTRIC	UG	UG	ON-SITE UP
GAS	UG	UG	MAIN STREET

SURVEY INFORMATION

PREPARED BY: CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
JOB #: 03-170192
DATE: JULY 25, 2017

TYPICAL LEGEND

EXISTING	PROPOSED
PROPERTY LINE	
SETBACK	
EASEMENT	
CURB	
STORM MANHOLE	
SEWER MANHOLE	
CATCH BASIN	
WETLAND FLAG	
WETLAND LINE	
SPOT ELEVATION	
TOP & BOTTOM OF CURB	
CONTOUR	
FLOW ARROW	
PAINTED ARROW	
OVERHEAD WIRE	
GAS LINE	
TELEPHONE LINE	
ELECTRIC LINE	
WATER LINE	

ISSUED FOR BID

STREET ADDRESS
808 MAIN STREET

CITY MILLIS STATE MA

COUNTY NORFOLK

SITE I.D. 020-0203

PLAN DESCRIPTION
COVER SHEET

McDonald's

AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION

BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60607

PLAN APPROVALS

SIGNATURE

DATE

OFFICE ADDRESS

APPROVED McDONALD'S AGENT

STATUS

DATE

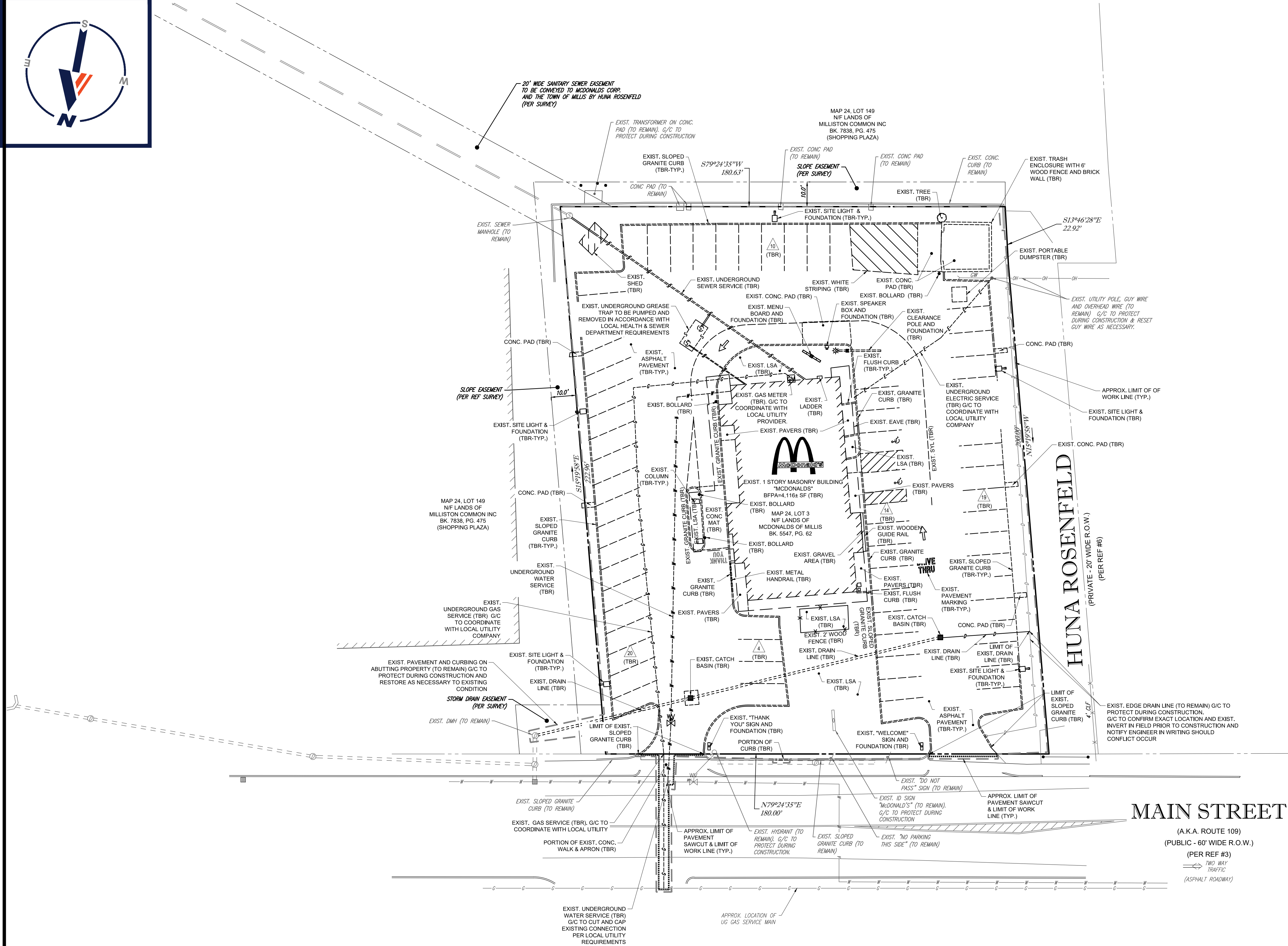
BY

DRAWN BY: 07/13/21 CSE

PLAN CHECKED: 07/13/21 JAK

AS-BUILT

SHEET NO. **C-101**
OF 15

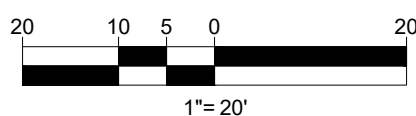


NOTE TO CONTRACTOR:
CONTRACTOR TO PROVIDE STAGING PLAN AND DEWATERING OPERATIONS PLAN TO TOWN PRIOR TO CONSTRUCTION

CONTRACTOR SHALL CONFIRM ALL UTILITY & DRAINAGE LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS OCCUR.

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/ REMOVAL PURPOSES ONLY



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SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

COMPLIANCE CHECKDATE

CONSTRUCTION CHECKDATE

CONSTRUCTION CHECKDATE

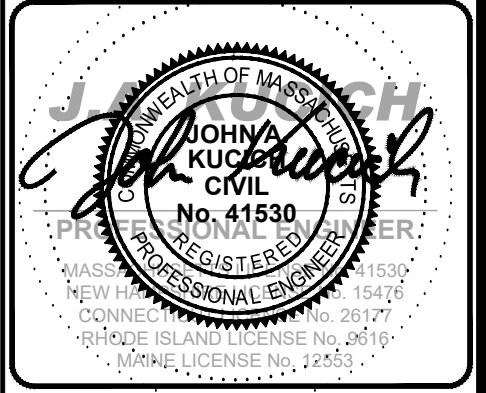
PROJECT No.: W212011

CAD I.D. #: W212011-CVL-4.dwg

COMPLIANCE CHECK	DATE
CONSTRUCTION CHECK	DATE
CONSTRUCTION CHECK	DATE
PROJECT No.:	W212011
CAD I.D. #:	W212011-CVL-4.dwg

ISSUED FOR BID	
STREET ADDRESS 808 MAIN STREET	
CITY MILLIS	STATE MA
COUNTY NORFOLK	
SITE I.D. 020-0203	PLAN DESCRIPTION DEMOLITION PLAN

STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		
SHEET NO.	C-201 OF 15	



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OFFICE ADDRESS

BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60607

PLAN APPROVALS		DATE	
SIGNATURE			
APPROVED MCDONALD'S AGENT			

BY	DESCRIPTION	DATE	REV
CSE	REVISED PER BUILDING SIGNAGE UPDATE	10/04/2021	1
CSE	REVISED PER PLANNING BOARD AND BOARD OF HEALTH COMMENTS	11/15/2021	2
CSE	REVISED FOR BID	12/31/2021	3
CSE	REVISED FOR DOMESTIC WATER SERVICE LINE	2/1/2022	4



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NOTE: ALL SIGNS AREAS ARE "BOXED" FOR CALCULATIONS

NOTE: A SIGN PERMIT SHALL BE OBTAINED FROM THE BUILDING INSPECTOR PRIOR TO THE ERECTION OF ANY SIGN OTHER THAN DIRECTIONAL OR TRAFFIC SIGN.

**THIS PLAN TO BE UTILIZED FOR SITE
LAYOUT PURPOSES ONLY. REFER TO
GENERAL NOTES
SHEET FOR ADDITIONAL NOTES**

STATUS		PLAN APPROVALS		BOSTON REGION	
DATE		SIGNATURE		OFFICE ADDRESS	
APPROVED McDONALD'S AGENT		DATE		110 N CARPENTER ST CHICAGO, IL 60607	
BY		DATE		BOSTON REGION	
DRAWN BY:		07/13/21		CSE	
PLAN CHECKED		07/13/21		JAK	
AS-BUILT					
SHEET NO.					
C-301					
OF 15					



20' WIDE SANITARY SEWER EASEMENT
TO BE CONVEYED TO MCDONALD'S CORP.
AND THE TOWN OF MILLIS BY HUNA ROSENFELD
(PER SURVEY)

PROP CB-2
RIM=154.70
INV. (DMH-5)=152.55

SLOPE EASEMENT
(PER SURVEY)

S13°46'28"E
22.92'

PROP 104 LF -
12" HDPE @ 0.5%

PROP DMH-5
RIM=155.45
INV. IN (CB-2)=152.03
INV. OUT (DMH-1)=152.03

PROP ACCESSIBLE PARKING
AREA MAX 2.0% SLOPE IN ALL
DIRECTIONS

PROP DMH-1
RIM=155.25
INV. IN (DMH-5)=151.88
INV. IN (CB-3)=151.88
INV. OUT (DMH-2)=151.88

PROP CB-3
RIM=154.95
INV. OUT (DMH-1)=151.92

PROP 7 LF-12" HDPE
@0.5%

PROP ACCESSIBLE WALK (TYP.)
MAX 2.0% CROSS SLOPE
MAX 5.0% RUNNING SLOPE

EXIST. EDGE DRAIN LINE (TO REMAIN)
G/C TO CONFIRM EXACT LOCATION
AND EXIST. INVERT IN FIELD PRIOR TO
CONSTRUCTION AND NOTIFY
ENGINEER IN WRITING SHOULD
CONFLICT OCCUR

PROP. 73 LF 6" HDPE PIPE, G/C TO ENSURE
SLOPE PROVIDES POSITIVE DRAINAGE BASED
ON VERIFICATION OF EXISTING EDGE DRAIN
INVERT. NOTIFY ENGINEER IN WRITING
SHOULD CONFLICT OCCUR

MAIN STREET
(A.K.A. ROUTE 109)

(PUBLIC - 60' WIDE R.O.W.)

(PER REF #3)

NO WAY
TRAFFIC

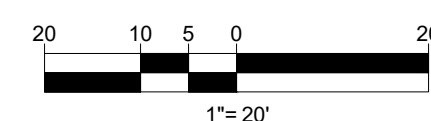
(ASPHALT ROADWAY)

NOTE TO CONTRACTOR:
**CONTRACTOR TO PROVIDE STAGING
PLAN AND DEWATERING OPERATIONS
PLAN TO TOWN PRIOR TO
CONSTRUCTION**

NOTE TO CONTRACTOR:
**TRENCHES SHALL NOT BE LEFT OPEN
OVERNIGHT. G/C TO PROVIDE
ADEQUATE FENCING AND POST
"KEEP OUT" AND "DANGER" SIGNAGE
AROUND EXCAVATED AREAS.**

**5.0' X 5.0' (MIN.) LEVEL LANDING
(<2.0% SLOPE IN ANY DIRECTION)
AREA TO BE PROVIDED AT ALL DOORS
& TOP & BOTTOM OF ALL RAMPS.**

**THIS PLAN TO BE UTILIZED FOR SITE
GRADING PURPOSES ONLY. REFER TO
GENERAL NOTES SHEET
FOR ADDITIONAL GRADING & UTILITY
NOTES**



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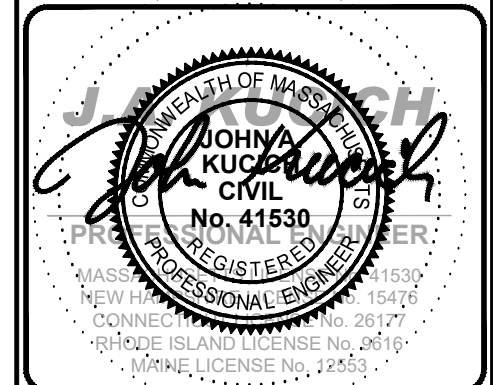
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COMPLIANCE CHECK	DATE
CONSTRUCTION CHECK	DATE
CONSTRUCTION CHECK	DATE
PROJECT No.: W212011	
CAD I.D. #: W212011-CVL-4.dwg	

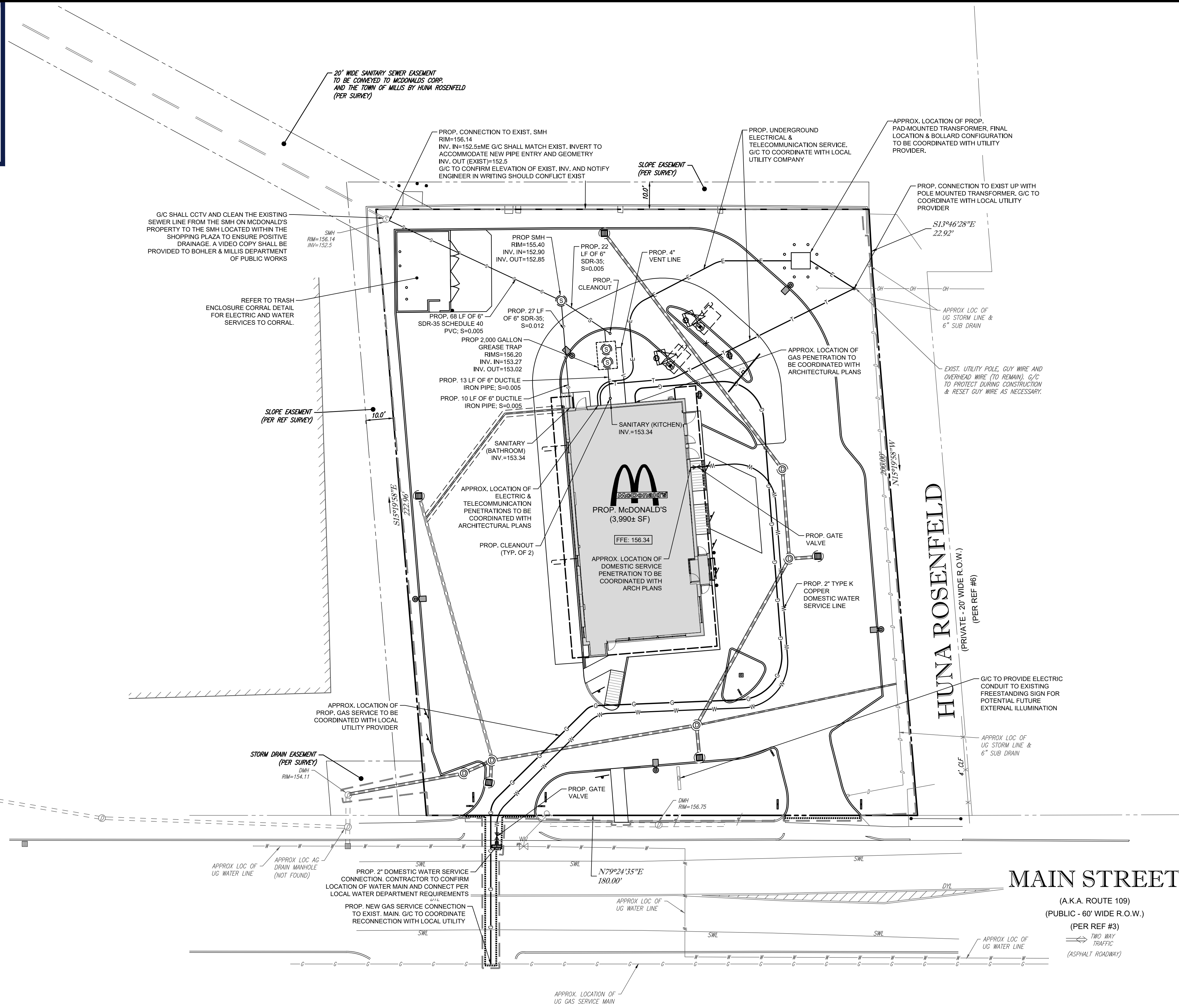
ISSUED FOR BID	
STREET ADDRESS 808 MAIN STREET	
CITY MILLIS	STATE MA
COUNTY NORFOLK	
SITE I.D. 020-0203	PLAN DESCRIPTION GRADING AND DRAINAGE PLAN

STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		
SHEET NO.	C-401 OF 15	



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OFFICE	BOSTON REGION
ADDRESS	110 N CARPENTER ST CHICAGO, IL 60607

PLAN APPROVALS	DATE
SIGNATURE	
APPROVED MCDONALD'S AGENT	



FLOOR DRAINS TO BE PROVIDED IN BUILDING & CONNECTED TO THE PROPOSED SANITARY SEWER SYSTEM PER ARCHITECTURAL PLANS BY OTHERS

SEWER FLOW CALCULATIONS

FAST FOOD RESTAURANT USE: 20 GPD / SEAT (1,000 MIN.)

EXISTING:	PROPOSED:
20 GPD/SEAT X 64 SEATS = 1,280 GPD	20 GPD/SEAT X 43 SEATS = 860 GPD
	= 1,000 GPD (MIN.)

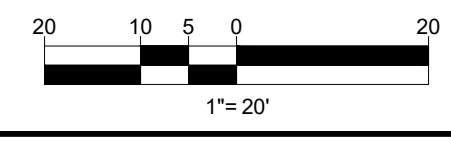
PER THE ABOVE 310 CMR 15 CALCULATIONS, THE PROPOSED REDEVELOPMENT WILL RESULT IN A REDUCTION IN SEWER FLOW OF 280 GPD.

NOTE TO CONTRACTOR:

TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. GIC TO PROVIDE ADEQUATE FENCING AND POST "KEEP OUT" AND "DANGER" SIGNAGE AROUND EXCAVATED AREAS.

CONTRACTOR SHALL CONFIRM ALL UTILITY & DRAINAGE LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS OCCUR.

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



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CONSTRUCTION CHECK

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DATE

PROJECT No.:

W212011

CAD I.D. #:

W212011-CVL-4.dwg

ISSUED FOR BID		STATUS	DATE	BY
STREET ADDRESS 808 MAIN STREET		DRAWN BY:	07/13/21	CSE
CITY MILLIS	STATE MA	PLAN CHECKED	07/13/21	JAK
COUNTY NORFOLK		AS-BUILT		
SITE I.D. 020-0203	PLAN DESCRIPTION UTILITY PLAN	SHEET NO. C-501		

DESCRIPTION

REVISED PER BUILDING SIGNAGE UPDATE

REVISED PER PLANNING BOARD AND BOARD OF HEALTH COMMENTS

REVISED FORD BID

REVISED FOR DOMESTIC WATER SERVICE LINE

DATE

10/04/2021

11/15/2021

12/31/2021

2/1/2022

REV

1

2

3

4

SEAL

JOHN A. KUCIUS

CIVIL

NO. 41530

REGISTERED PROFESSIONAL ENGINEER

STATE OF MASSACHUSETTS

EXPIRATION DATE 12/31/2024

McDonald's

PLANNING REGION

110 N CARPENTER ST

CHICAGO, IL 60607

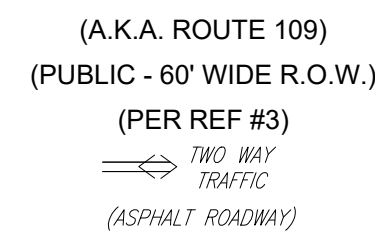
OFFICE ADDRESS

DATE

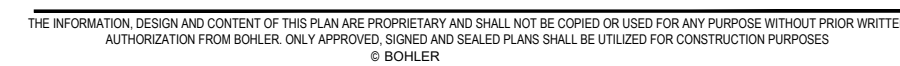
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APPROVED MCDONALD'S AGENT

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**REFER TO SOIL EROSION CONTROL
NOTES & DETAIL SHEET FOR EROSION
NOTES AND DETAILS**



STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		

SHEET NO.

C-601

OF 15

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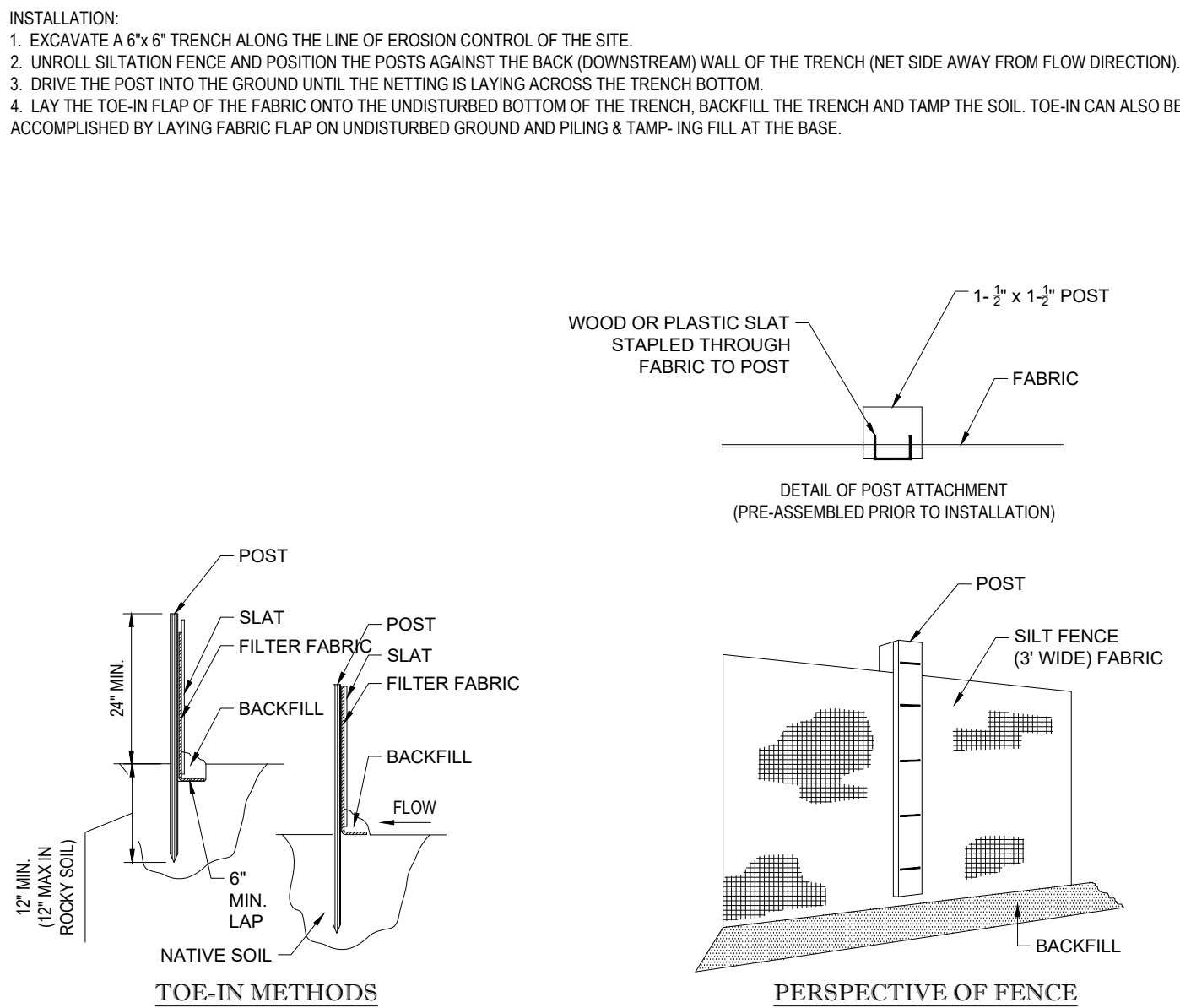
OFFICE	BOSTON REGION
ADDRESS	110 N CARPENTER ST CHICAGO IL 60607

		PLAN APPROVALS		DATE
		SIGNATURE		
APPROVED MCDONALD'S AGENT				

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
3. SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 15TH THE SAME APPLIES FOR ALL SLOPES GREATER THAN 6%.
4. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECAY. WHEN SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING) MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED UNTO OPEN AREAS.
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - 10.1. SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - 10.2. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB CALCIUM PER OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT APPLIED GRINDED LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
 - 10.3. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY SOOD MAY BE SUBSTITUTED FOR SEED.
 - 10.4. STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURFOSOL OR RMB PLUS WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
12. WETLANDS WILL BE PROTECTED W/ STRAW, COMPOST, AND/OR SILT FENCE BARRIERS INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED,

MULCH		
LOCATION PROTECT AREA	MULCH STRAW	RATE (1000 SF) 100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
4. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WINTER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF STRAW OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
7. MULCHING REQUIREMENTS:
 - 7.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - 7.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - 7.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
10. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
11. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.



PROFILE VIEW

2'-3" CLEAN ANGULAR CRUSHED STONE (6" MIN. THICKNESS)

PITCH TO DRAIN AWAY FROM—PUBLIC RIGHT-OF-WAY

EXISTING GROUND

PROVIDE GEOTEXTILE FILTER FABRIC UNDER STONE (MIRAFI 140N, OR EQUAL)

"L" = 50' MIN. (SEE CHART 1)

PROVIDE CORNER ROUNDINGS (AS APPLICABLE FOR SITE SPECIFIC CONDITIONS)

SIDEWALK (OR SHOULDER)

TRAVELED WAY

FULL WIDTH OF ACCESS DRIVE

5' MIN.

PLAN VIEW

CONSTRUCTION ACCESS DRIVE

GRADE TO DRAIN AWAY FROM PUBLIC ROADWAY

SEE EROSION CONTROL PLAN FOR SITE SPECIFIC CONSTRUCTION PERIOD STORMWATER MANAGEMENT REQUIREMENTS

CONSTRUCTION FENCE / GATES (AS APPLICABLE)

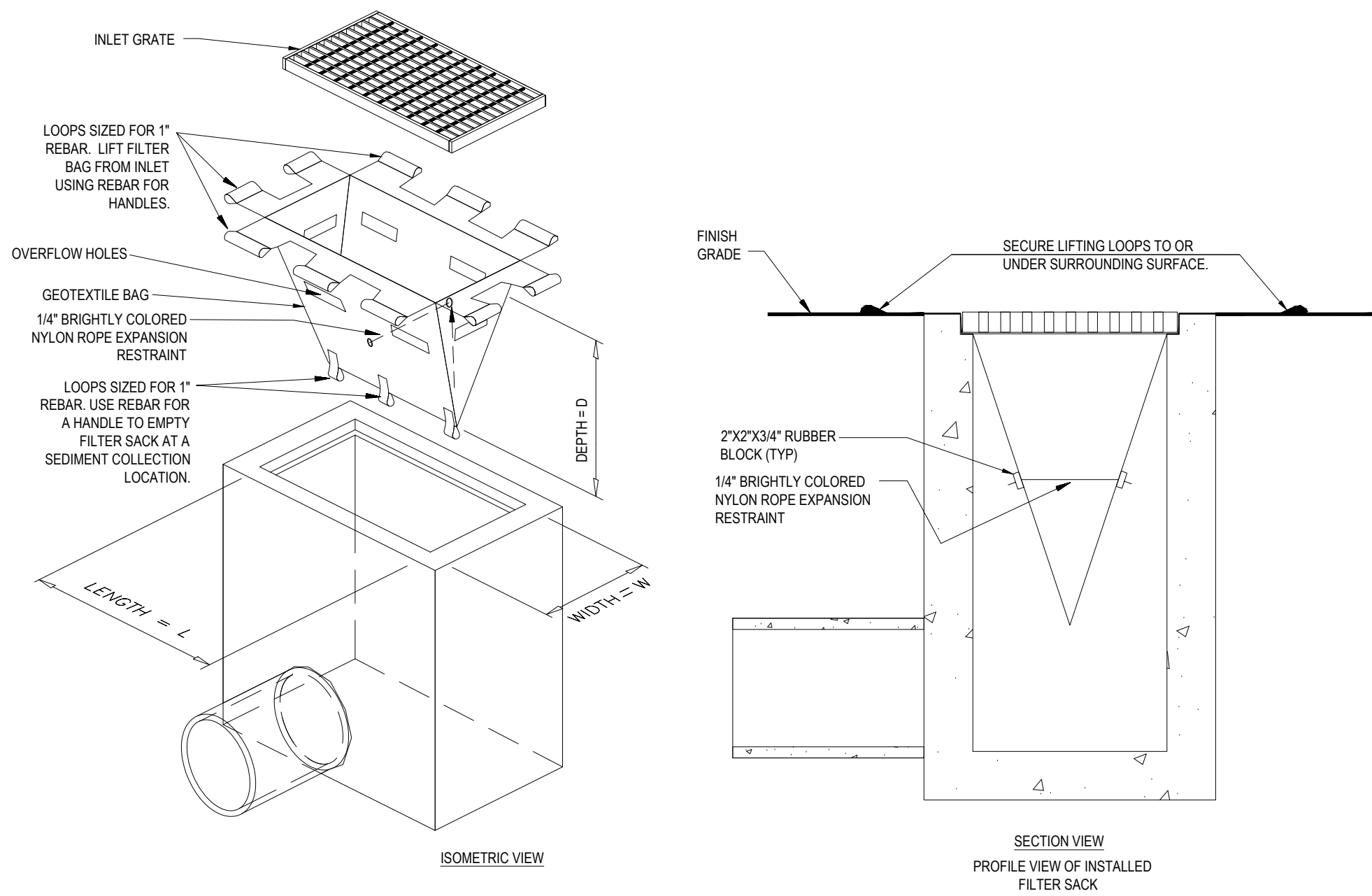
CHART 1

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

MAINTENANCE NOTES:

- INSPECT STABILIZED CONSTRUCTION ENTRANCE / ANTI-TRACKING PAD AT CONSTRUCTION DISPOSAL AREA WEEKLY.
- AFTER EVERY MAJOR RAIN STORM WASH WATER (IF USED) SHALL BE DIRECTED TOWARD A SEGMENT THAT IS SUFFICIENTLY SIZED FOR SPECIFIC CONDITIONS.
- EXCESSIVELY MUD-CLOGGED STONE SHALL BE REMOVED AND REPLACED NEEDED.



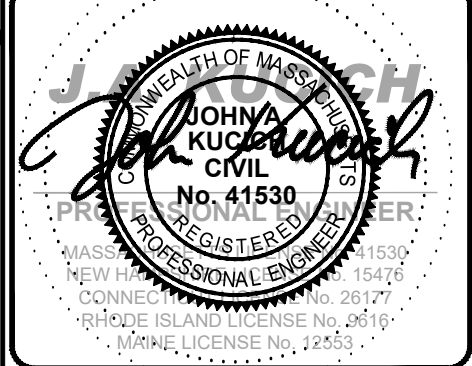
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCH RESISTANCE	ASTM D-4633	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4325	40 HOURS
APPROX. OPENING SIZE	ASTM D-4751	40 GAUMINUS FT
FLOW RATE	ASTM D-4591	0.5 SEC - 1
PERMITTIVITY	ASTM D-4491	

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCH RESISTANCE	ASTM D-4633	120 LBS
MULLEN BURST	ASTM D-3786	425 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4325	90 %
APPROX. OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4591	20 GAUMINUS FT
PERMITTIVITY	ASTM D-4491	1.5 SEC - 1

1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN ILLU ADSORBENT PAD OR PILLOW OVER ILLU GRATE WHEN ILLU SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED ILLU BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED ILLU BOX.

DO NOT USE IN PAVED AREAS WHERE PONDING
MAY CAUSE TRAFFIC HAZARDS.

TO BE USED IN EXISTING RIGHT OF WAY

[illegible]

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THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (SILT FENCE) (AS SHOWN)
- INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
- DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
- DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
- INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF BUILDINGS
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
- FINAL GRADING OF ALL SLOPED AREAS
- PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
- REMOVAL OF THE TEMPORARY SEDIMENT BASINS
- PAVE PARKING LOT
- LANDSCAPING PER LANDSCAPING PLAN
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER.

1:3 MAXIMUM SLOPE

35' MAXIMUM

3

1

CONSTRUCT SILT FENCE AND STRAW BALES AROUND PERIMETER OF STOCKPILE

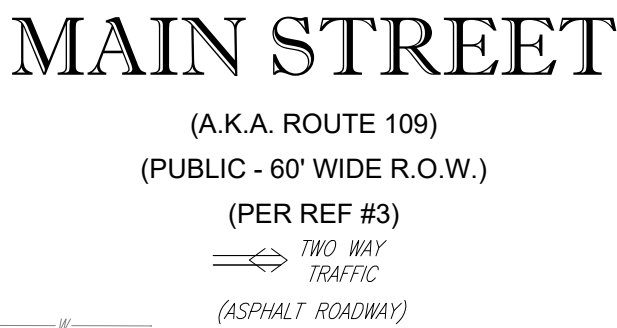
**SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
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LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
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TRANSPORTATION SERVICES**

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CONSTRUCTION CHECK	DATE
CONSTRUCTION CHECK	DATE
PROJECT No.: W212011	
CAD I.D. #: W212011-CVL-4.dwg	

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STREET ADDRESS	
808 MAIN STREET	
CITY	STATE
MILLIS	MA
COUNTY	
NORFOLK	
SITE I.D.	PLAN DESCRIPTION
020-0203	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

			APPROVED MOD.
STATUS	DATE	BY	
DRAWN BY:	07/13/21	CSE	
PLAN CHECKED	07/13/21	JAK	
AS-BUILT			
SHEET NO.			
<div style="text-align: center;"> <h1>C-602</h1> <p>OF 15</p> </div>			



SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
	<p>C. PARKING AND LOADING LOT STANDARDS: ALL PARKING OR LOADING AREAS CONTAINING OVER THREE SPACES SHALL BE EITHER CONTAINED WITHIN STRUCTURES, OR ON EACH SIDE FACING THE LOT: ALL PARKING SHALL BE SCREENED ON EACH SIDE OF THE SIDE OR REAR LOT LINES WITH 3 - 6 FOOT HIGH PLANTING 3 FEET ON CENTER.</p> <p>IN ANY PROPERTY ADJACENT TO ANY RESIDENTIAL AREA OR ACROSS A STREET, ALL LOADING AREAS AND ALL AREAS ACCOMMODATING MORE THAN THREE CARS SHALL BE SCREENED BY PLANTING OR A WALL/FENCE TO A HEIGHT OF 6 FEET.</p>	<p>PARKING AREA IS SCREENED ON EACH SIDE FACING THE SIDE OR REAR LOT LINES WITH 3 - 6 FOOT HIGH PLANTING 3 FEET ON CENTER.</p>
SECTION VIII: OFF-STREET PARKING AND LOADING REGULATIONS	<p>F. NO PORTION OF ANY PARKING AREA SHALL BE PERMITTED CLOSER THAN 15 FEET FROM ANY STREET RIGHT-OF-WAY LINE. THIS SETBACK AREA SHALL BE LANDSCAPED (WITH A MIN. OF 1 TREE PER 30 FEET, AT LEAST 12 FEET IN HEIGHT AND 2 1/2 INCHES IN CALIPER).</p>	<p>THIS 15 FOOT SETBACK AREA FROM THE RIGHT-OF-WAY IS LANDSCAPED WITH A MIN. OF 1 TREE PER 30 FEET. TREES TO BE MIN 2.5" CALIPER/ 12' HEIGHT AND MATURE TO MIN. 30'</p>
	<p>P. PARKING AREAS BETWEEN 1 ACRE AND 1 ACRE, LANDSCAPE ISLANDS TO HAVE 1 TREE FOR EVERY FOUR SPACES. TREES TO BE MIN 2.5" CALIPER/ 12' HEIGHT AND MATURE TO MIN. 30'</p>	<p>38 PARKING SPACES/4 = 9 TREES REQUIRED WAIVER REQUESTED</p>

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
SHADE TREES					
AROG	4	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2-3' CAL.	B-B
GTI	5	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST	2 1/2-3' CAL.	B-B
QPP	3	QUERCUS PALustris 'PINGREEN'	GREEN PILLAR PIN OAK	2 1/2-3' CAL.	B-B
SUBTOTAL:	12				
EVERGREEN TREES					
TDE	12	THUJA OCCIDENTALIS 'EMERALD'	EMERALD GREEN ARBORVITAE	5-6'	B-B
TON	31	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	5-6'	B-B
SUBTOTAL:	43				
DECIDUOUS SHRUBS					
CA	5	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	24-30"	CONTAINER
HPB	6	HYDRANGEA PANICULATA 'BOBO'	BOBO HYDRANGEA	18-24"	CONTAINER
SUBTOTAL:	11				
EVERGREEN SHRUBS					
IOC	2	ILEX CRENATA 'COMPACTA'	COMPACT JAPANESE HOLLY	24-30"	CONTAINER
IGC	7	ILEX GLABRA 'COMPACTA'	DWARF INKBERRY HOLLY	24-30"	B-B
IGS	7	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24-30"	B-B
JCSG	45	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24-30" SPRD.	B-B
TBR	40	TAXUS BACCATA 'REPANDENS'	SPREADING ENGLISH YEW	18-24"	B-B
SUBTOTAL:	101				
PERENNIALS					
HRR	94	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	2 GAL.	CONTAINER
SUBTOTAL:	94				
ORNAMENTAL GRASSES					
PAH	34	PENNISETUM ALOPECUROIDES 'HAMELI'	DWARF FOUNTAIN GRASS	2 GAL.	CONTAINER
SUBTOTAL:	34				
NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN THE AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN WILL DICTATE.					

UPON OWNER'S (OR OWNER CONTRACTOR'S) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR THE MAINTENANCE OF THE LANDSCAPING. THE LANDSCAPING CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE TRIM, BUSHES, SHRUBS, GRASSES, GRASS OR ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND TREES. THE LANDSCAPING CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ANY OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- 1. THOSE ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY OBSTACLE OR LIMB OF A PLANT OR TREE DOES NOT PRESENT A TRIP HAZARD TO ANYONE PASSING BY. THE OWNER SHALL BE RESPONSIBLE TO MAINTAIN THE PLANTING TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAFFIC.
- 2. PLANTING SHALL BE MAINTAINED TO A MINIMUM OF 10 FEET FROM ANY LANDSCAPED PLANT. AREAS TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FEET (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- 3. VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF ANY PLANT OR TREE IS HIGHER THAN THE ADJACENT TRAFFIC SURFACE. THE TRIMMING SHALL BE DONE TO THE RIGHT LINES OF PARKING LOTS AND INGRESS-EGRESS WAYS.
- 4. ANY DEAD, DROPPING, OR FALLING BRANCHES, FRUIT, BUDS OR OTHER DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

**REFER LANDSCAPE NOTES &
DETAILS SHEET FOR LANDSCAPE
NOTES AND DETAILS**



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808 MAIN STREET	
CITY	STATE
MILLIS	MA
COUNTY	
NORFOLK	
SITE I.D.	PLAN DESCRIPTION
020-0203	LANDSCAPE PLAN

PLAN APPROVALS		BOSTON REGION		CHICAGO, IL 60607	
STATUS	DATE	BY	OFFICE	ADDRESS	
DRAWN BY:	07/13/21	CSE			
PLAN CHECKED	07/13/21	JAK			
AS-BUILT					
SHEET NO. C-701					
OF 15					

LANDSCAPE SPECIFICATIONS

Diagram illustrating the correct structural setup for planting a tree in a hole, showing the layers of soil and mulch, and the placement of the tree and root ball.

Labels on the left side (from top to bottom):

- REINFORCED RUBBER HOSE (1/2" DIA. BLACK)
- FOLD BURLAP AWAY FROM TOP OF ROOT BALL
- 12 GAUGE GALVANIZED WIRE GUYS TWISTED
- 2" DIA. HARDWOOD STAKES 20" TREE HT. 3 PER TREE
- TWICE THE WIDTH OF ROOTBALL FOR PREPARED SOIL FOR TREES.
- PREPARED SOIL FOR TREES
1 PART PEAT MOSS
1 PART COW MANURE
3 PARTS TOPSOIL
(RECOMMENDATION ONLY. SEE SOIL MOD. CHART)
- UNDISTURBED SUBGRADE
- DIG WIDE, SHALLOW HOLE WITH TAMPED SIDES
- TAMP SOIL SOLIDLY AROUND BASE OF ROOT BALL

Labels on the right side (from top to bottom):

- SPECIFIC STRUCTURAL CORRECTIONS
- SET ROOT BALL FLUSH TO GRADE OR SEVERAL INCHES HIGHER IN POOR DRAINING SOILS.
- 4" BUILT-UP EARTH SAUCER
- 3" DOUBLE SHREDDED HARDWOOD BARK MULCH (UNLESS OTHERWISE SPECIFIED) (DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK)
- LANDSCAPE FABRIC AS SPECIFIED
- ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS.
- SET ROOT BALL ON UNDISTURBED SOIL IN BOTTOM OF HOLE

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SHRUB PLANTING DETAIL

	N.T.S.
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GROUNDCOVER PLANTING

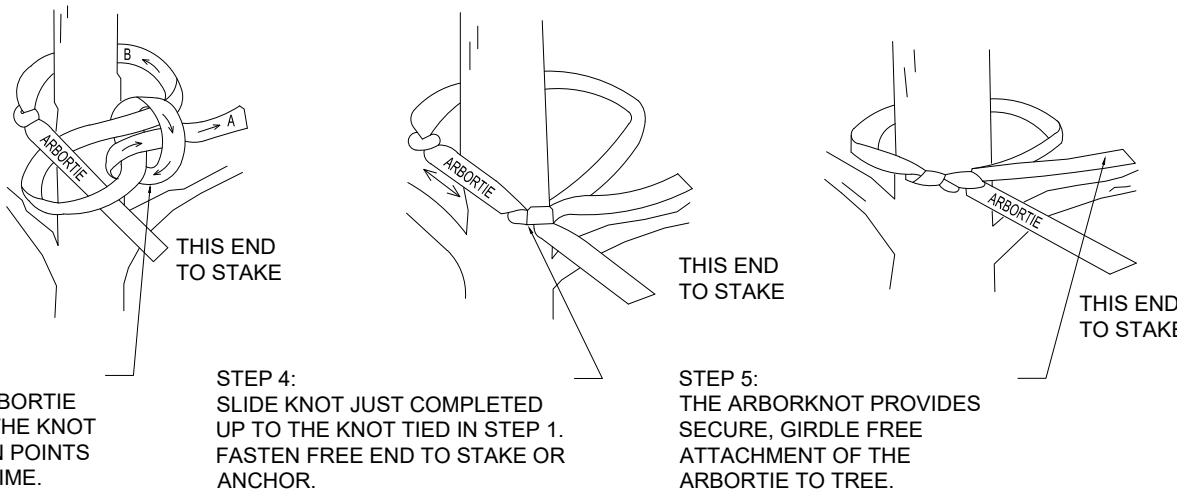
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TREE PROTECTION DURING SITE CONSTRUCTION

OBARRIER ROOT BARRIER DETAIL

HYDROSEED SPECIFICATIONS



	N.T.
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PLAN DESCRIPTION
**LANDSCAPE
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020-0203

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PLAN APPROVALS

SIGNATURE

APPROVED McDONALD'S

CS

JA

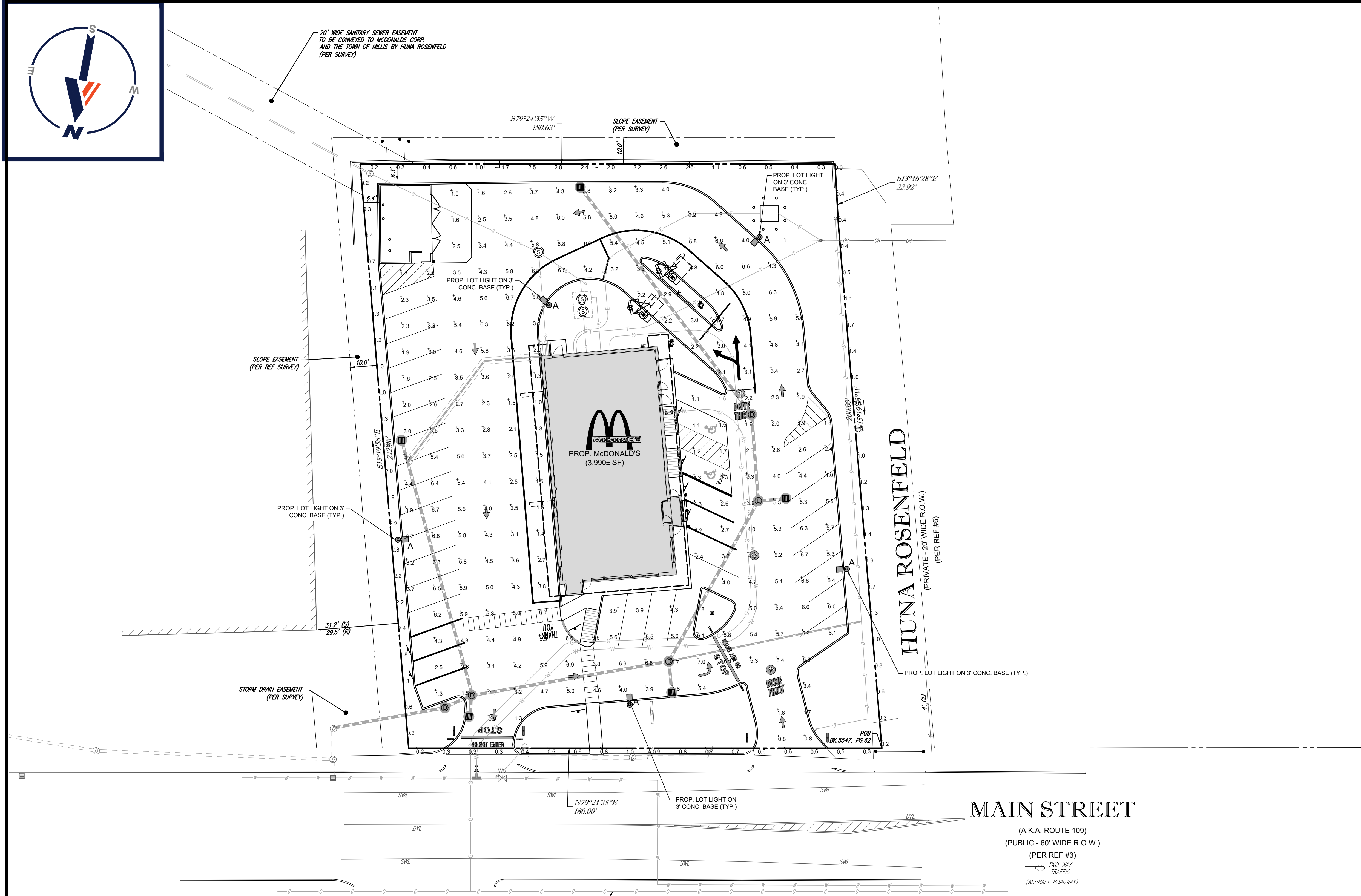
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OF 15

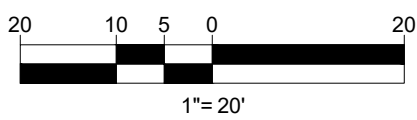
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MAIN STREET

(A.K.A. ROUTE 109)
(PUBLIC - 60' WIDE R.O.W.)
(PER REF #3)
TWO WAY TRAFFIC
(ASPHALT ROADWAY)

**THIS PLAN TO BE UTILIZED FOR
LIGHTING PURPOSES ONLY**



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CONSTRUCTION CHECK	DATE
CONSTRUCTION CHECK	DATE
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CAD I.D. #: W212011-CVL-4.dwg	

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STREET ADDRESS 808 MAIN STREET	
CITY MILLIS	STATE MA
COUNTY NORFOLK	
SITE I.D. 020-0203	PLAN DESCRIPTION LIGHTING PLAN

STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		
SHEET No.	C-703 OF 15	

LIGHTING NOTES

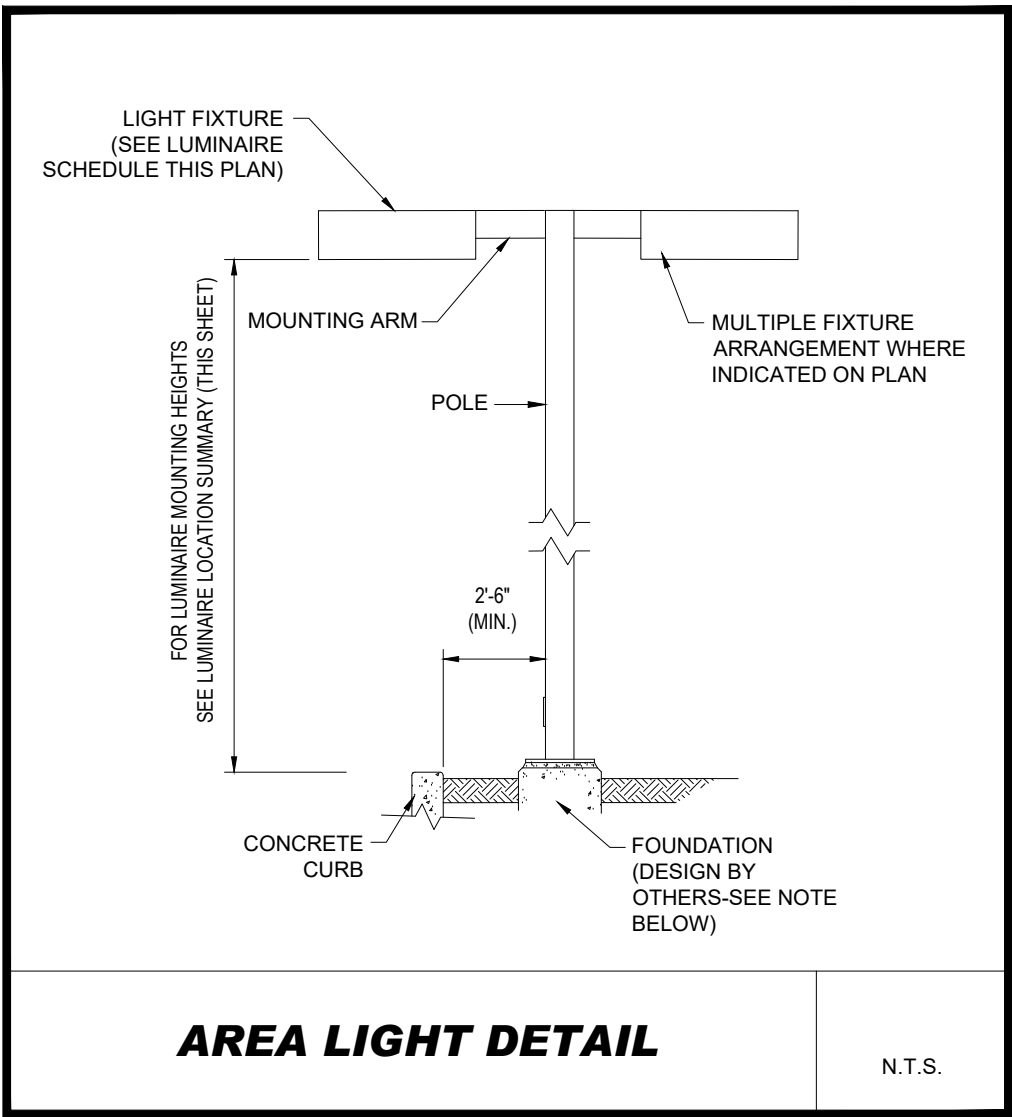
- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURERS. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
- THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
- WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MECHANICAL AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- IT IS THE LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
- WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
- UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

NUMERIC SUMMARY

LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED SURFACE READING	ILLUMINANCE	FC	4.04	7.0	0.8	5.05	8.75
PROPERTY LINE READINGS	ILLUMINANCE	FC	1.05	2.8	0.0	N.A.	N.A.

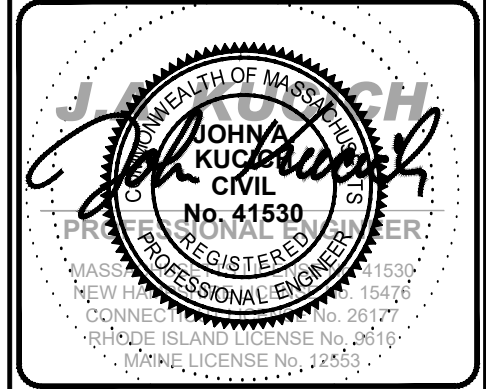
LUMINAIRE SCHEDULE

SYMBOL	QTY	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
⊙ A	5	SINGLE	226.9	0.90	226.9-WATT LED AREA LIGHT MOUNTED @ 21' RAR2-480L-240-5K7-4W; SES-18-40-1-GL-TA-XX(4') POLE



NOTE: THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.

- SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
- THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.



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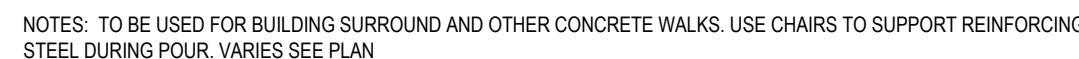
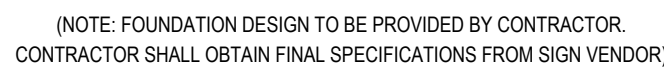
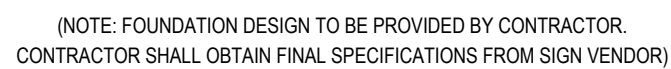
BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60607

OFFICE ADDRESS

DATE

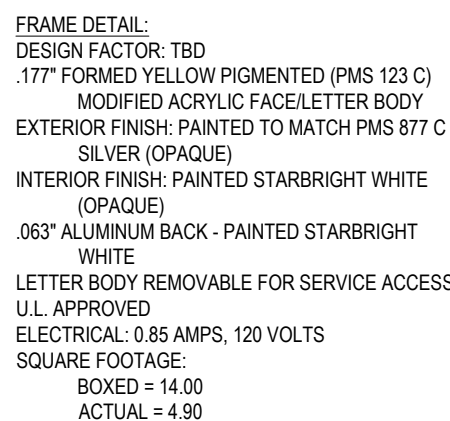
SIGNATURE

APPROVED MCDONALD'S AGENT



1. SEE SITE PLAN FOR WIDTH AND GRADES
2. PROVIDE MINIMUM 1/8"/FT. CROSS-SLOPE
3. PROVIDE CONTROL JOINTS 5'-0" O.C. MIN.
4. PROVIDE EXPANSION JOINTS 20'-0" O.C. MIN.
5. PROVIDE 2" RIGID FOAM IN NEW HAMPSHIRE & MAINE.
6. PIN SIDEWALK AT DOOR LANDINGS W/ #4 REBAR 12" O.C. IN NEW HAMPSHIRE & MAINE.

MASSACHUSETTS
COMMONWEALTH OF MASSACHUSETTS
JOHN A. KUCUK
CIVIL
No. 41530
REGISTERED
PROFESSIONAL ENGINEER
MASSACHUSETTS
NEW HAVEN, CT 06511-1547
CONNECTICUT LICENSE No. 26177
RHODE ISLAND LICENSE No. 2616
MAINE LICENSE No. 72353



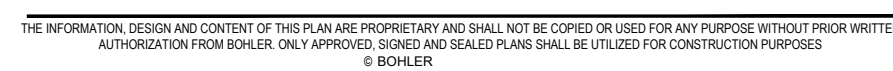
- ### SIDE-BY-SIDE STANDARDS & DESIGN TOLERANCES

- 1) DISTANCE FROM CENTER OF OPEN PRESENT WINDOW TO CENTER OF OPEN CHASS WINDOW STANDARD IN 42-45 AND IS SPECIFIC TO EACH BUILDING CONFIGURATION. ACCEPTABLE TOLERANCE IS 45° MIN ON REMODELS ONLY.
- 2) DISTANCE FROM CENTER OF OPEN CHASS WINDOW TO CENTER OF PRIMARY LANE DT CANOPY/SPEAKER IS 100° OPTIMUM, 80° OR 60° MIN. ACCEPTABLE TOLERANCE IS PLUS OR MINUS 5° FOR 100° OR 80° QUEUES.
- 3) THE CENTER OF THE DIGITAL MENU BOARD FOUNDATION IS TO BE 5°-9° (5'-6" MIN. AND 6'-0" MAX) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. IT SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° (35° PREFERRED) FROM A CAR POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
- 4) THE CRITICAL HOLD DISTANCE FROM CENTER OF THE PRIMARY LANE DT CANOPY/SPEAKER TO THE TIP OF THE CURBED ISLAND IS 15'-0".
- 5) THE CRITICAL HOLD DISTANCE FROM TIP OF ISLAND TO CENTER OF SECONDARY LANE DT CANOPY/SPEAKER IS 14'-0".
- 6) THE CENTER OF THE SECONDARY LANE DIGITAL MENU BOARD FOUNDATION SHALL BE 5°-9° (5'-6" MIN. AND 6'-0" MAX) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD NOT BE LESS THAN 12" FROM FACE OF CURB. IT SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
- 7) THE ISLAND WIDTH IS 13'-0" STANDARD FROM FACE OF CURB TO CURB.
- 8) DIGITAL PRE-BROWSE BOARD IN THE PRIMARY LANE MUST BE 18"-24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY DT CANOPY/SPEAKER AND PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE (APPROXIMATELY 1/20°) OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY FROM THE SECOND CAR TO DT CANOPY/SPEAKER.
- 9) DIGITAL PRE-BROWSE BOARD IN THE SECONDARY LANE MUST BE MIN. 12" FROM FACE OF CURB. THE PRE-BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE-BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE OF THE PRE-BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM THE DT CANOPY/SPEAKER (PREFERRED 35°).
- 10) A GATEWAY IS REQUIRED AND PLACED AT THE DRIVE-THRU LANE ENTRANCE.
- 11) EVERY SBS SHOULD HAVE BOTH DT CANOPY/SPEAKER IN BOTH LANES.

NOTE: THE PLACEMENT OF THE DT CANOPY/SPEAKER SHOULD BE SUCH THAT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.

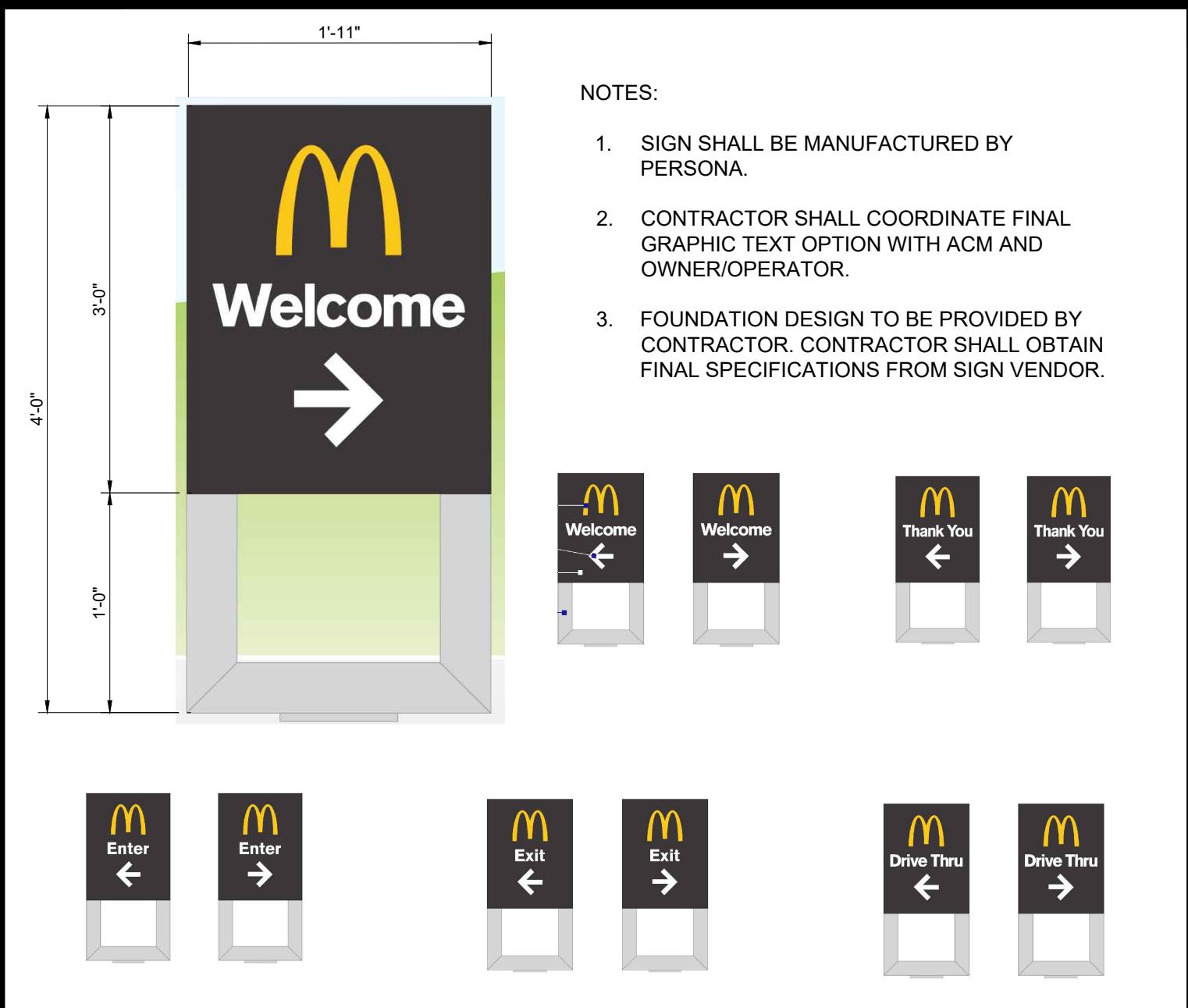
NOTE: ALL SIGN BOLLARDS ARE TO BE 18"-2
FROM FACE OF CURB, THIS IS MEASURED
FROM THE CLOSEST POINT ON THE SIGN.

SCALE: 1"=10'

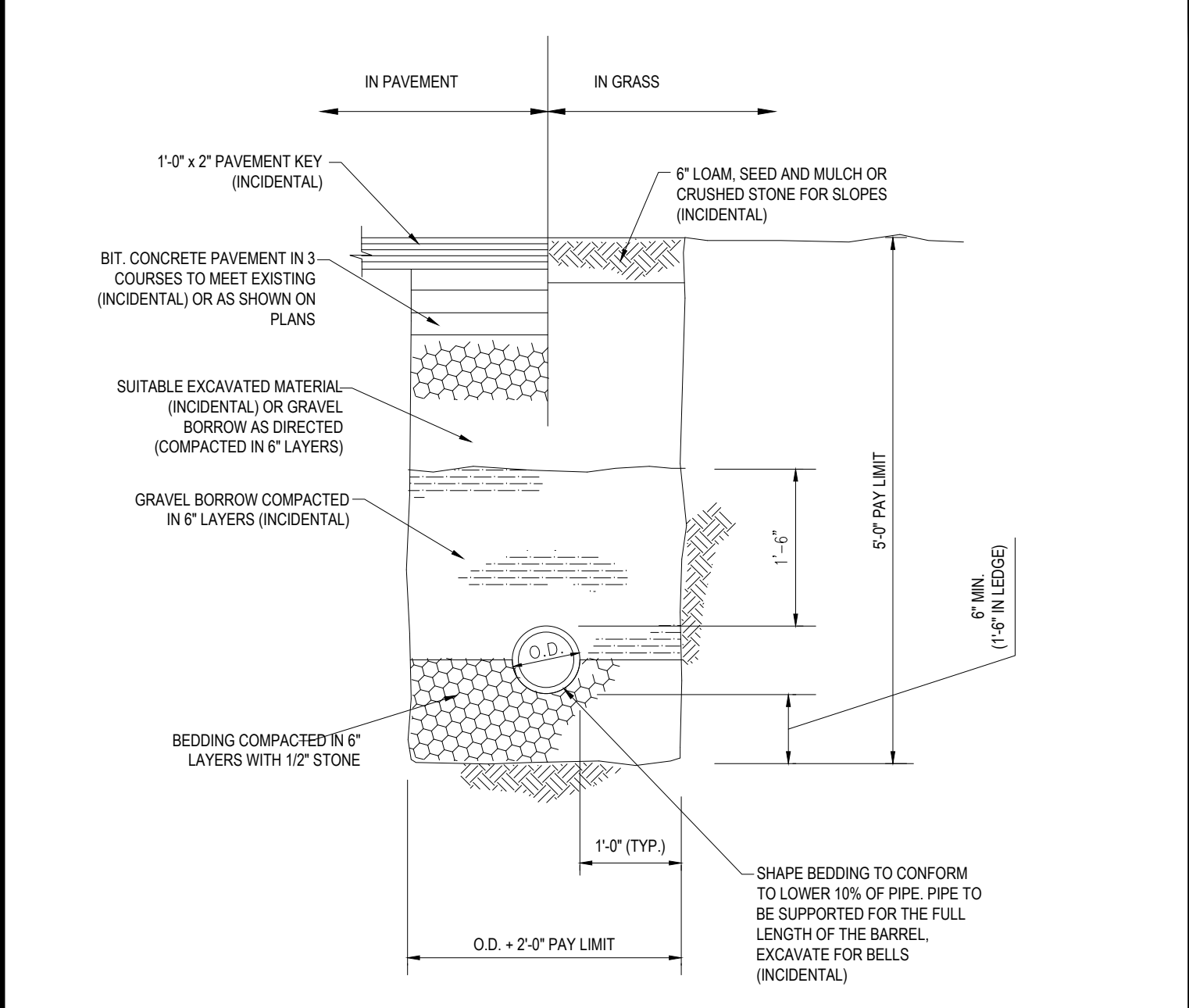


C-902
OF 15

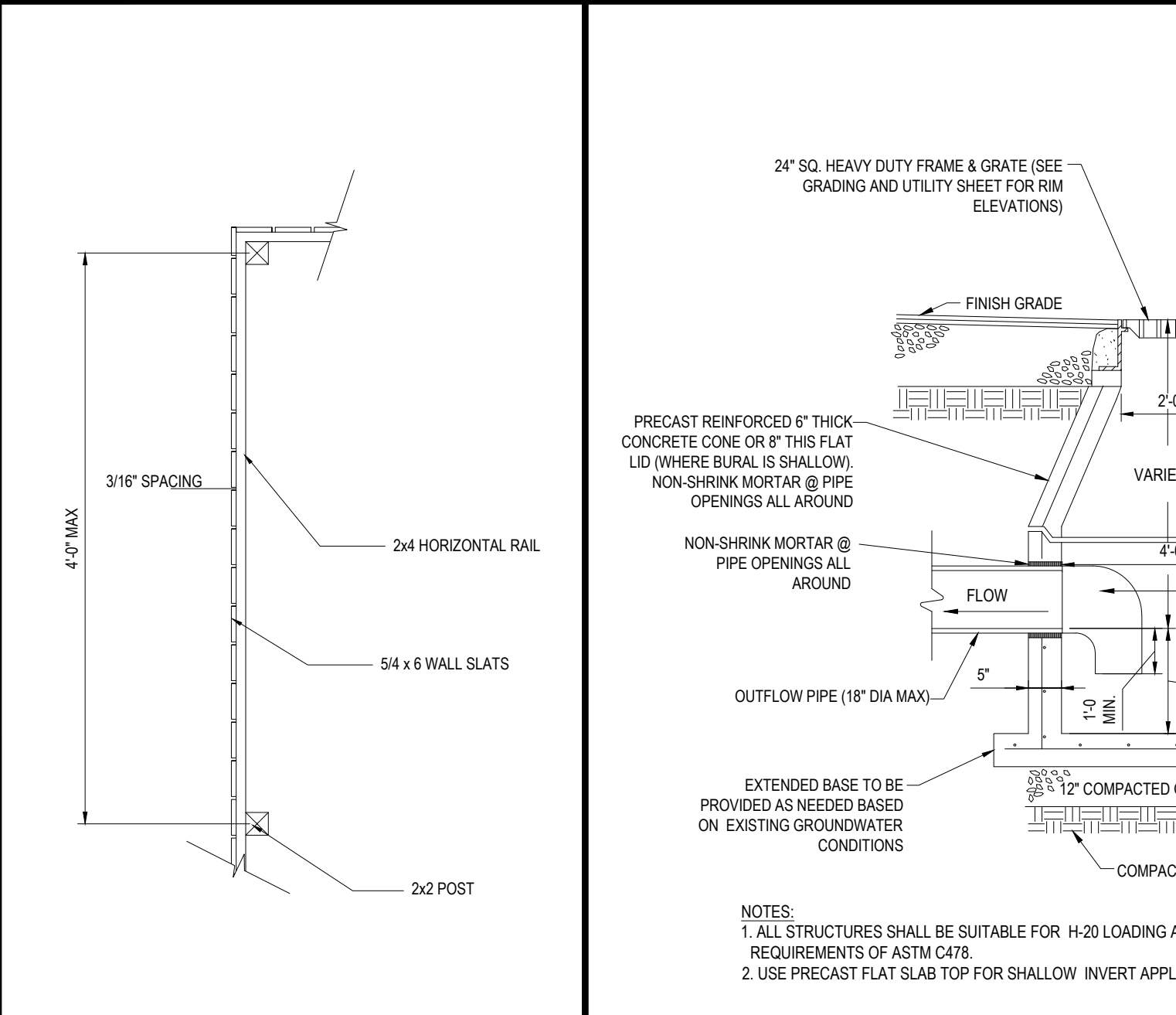
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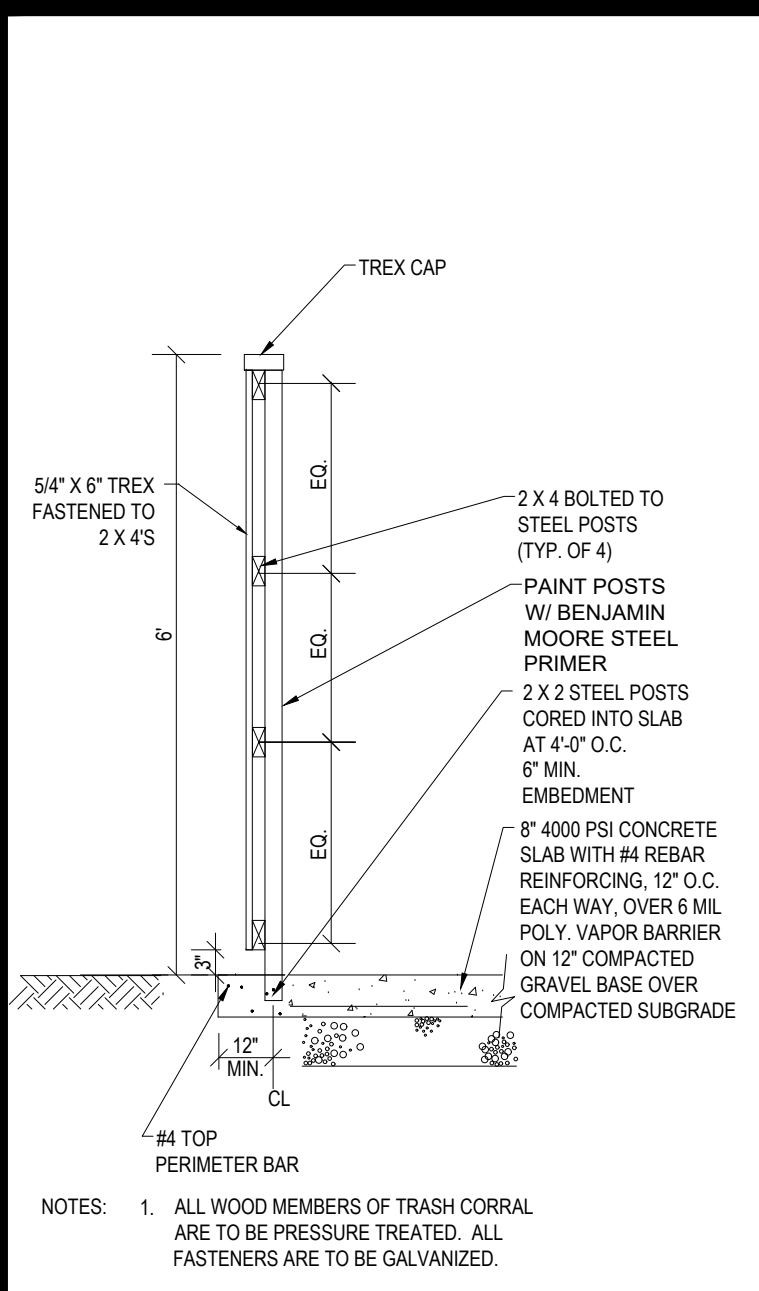
MCD 48" NEXT GEN DIRECTIONAL SIGN



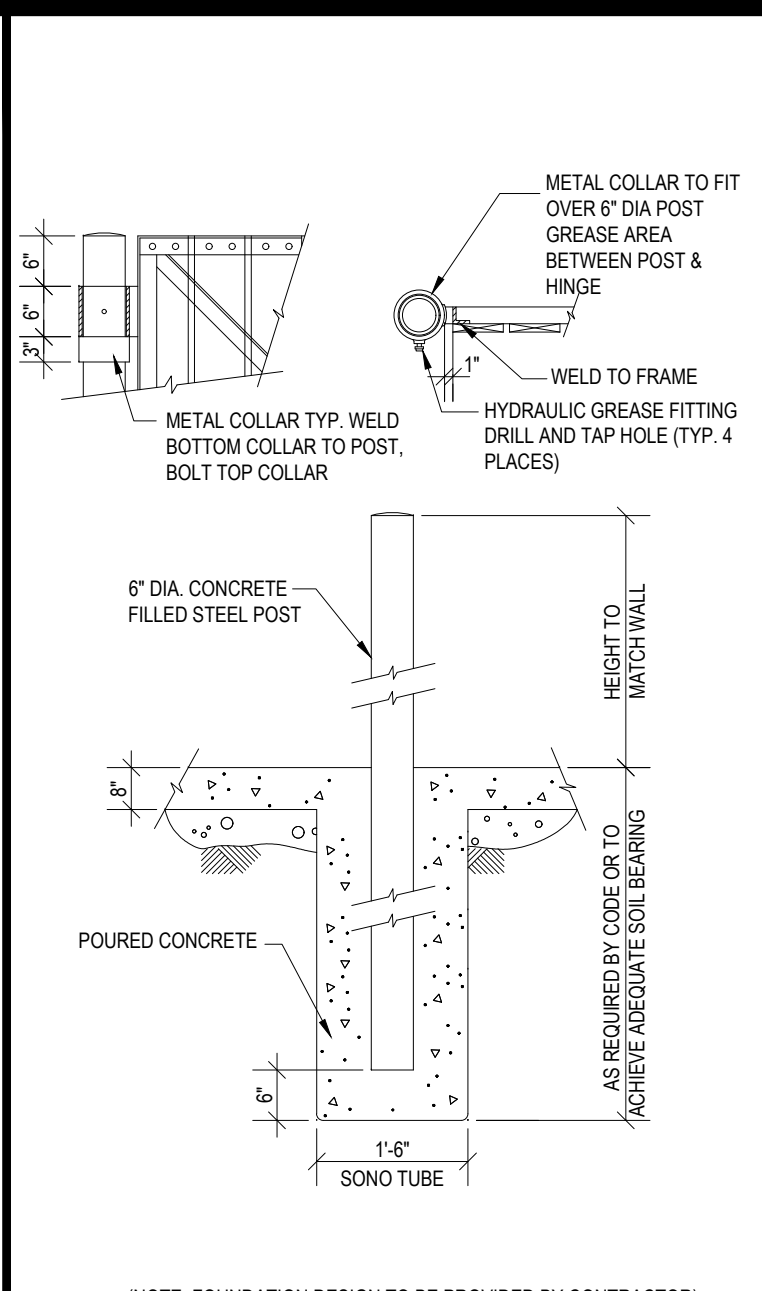
PIPE TRENCH DETAIL



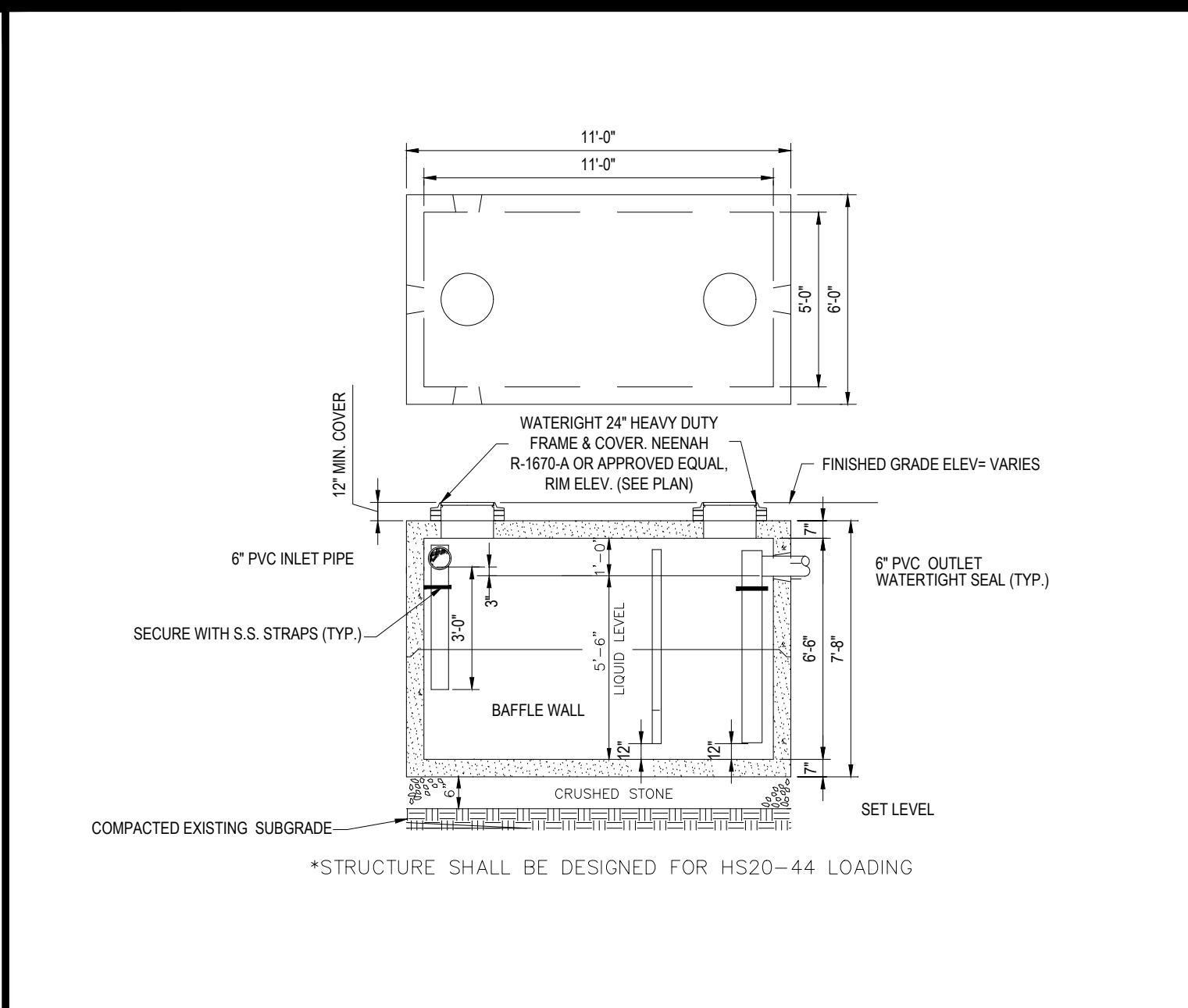
TRASH ENCLOSURE TYP. PLAN ELEV.



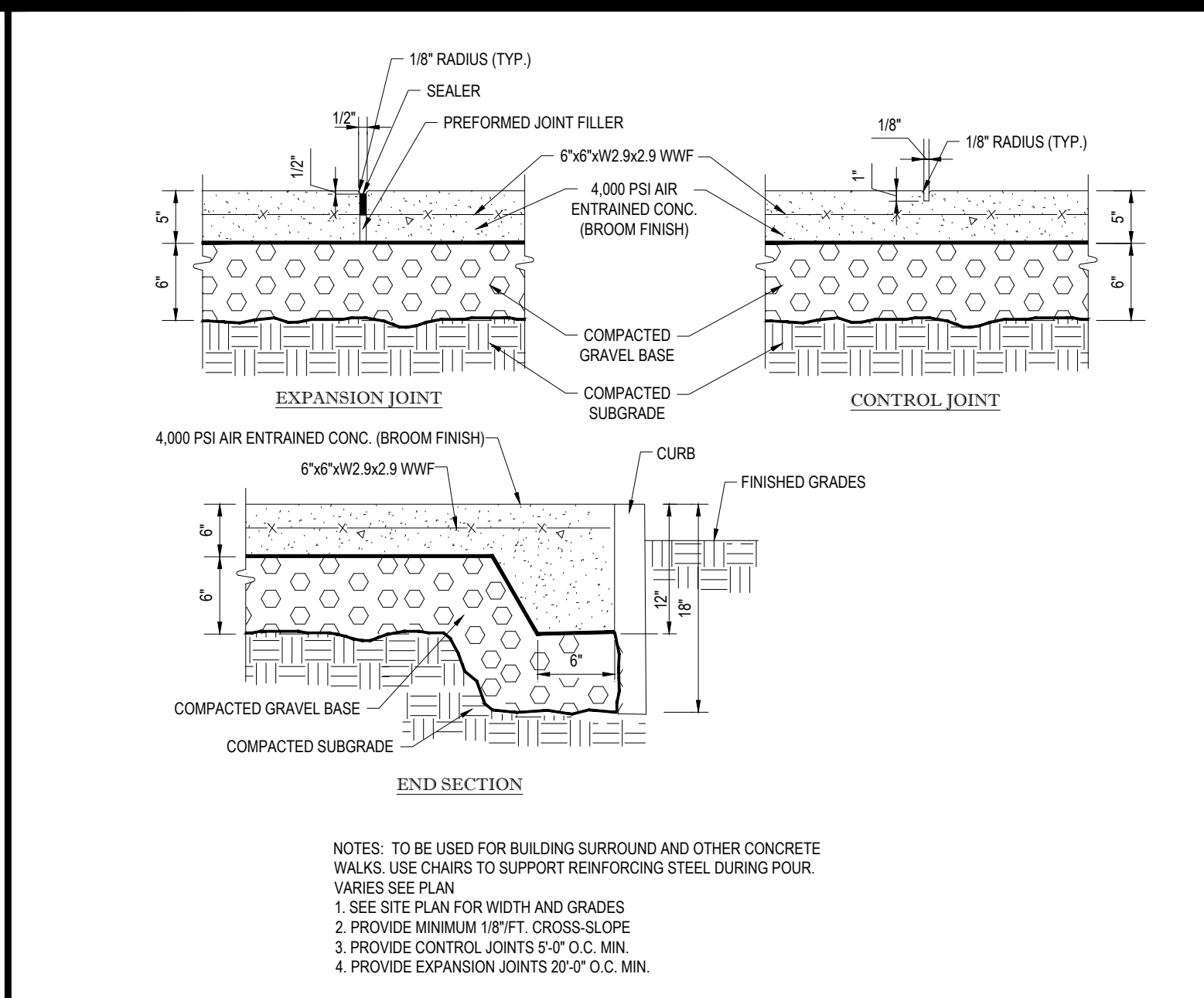
TRASH ENCLOSURE WALL SECTION



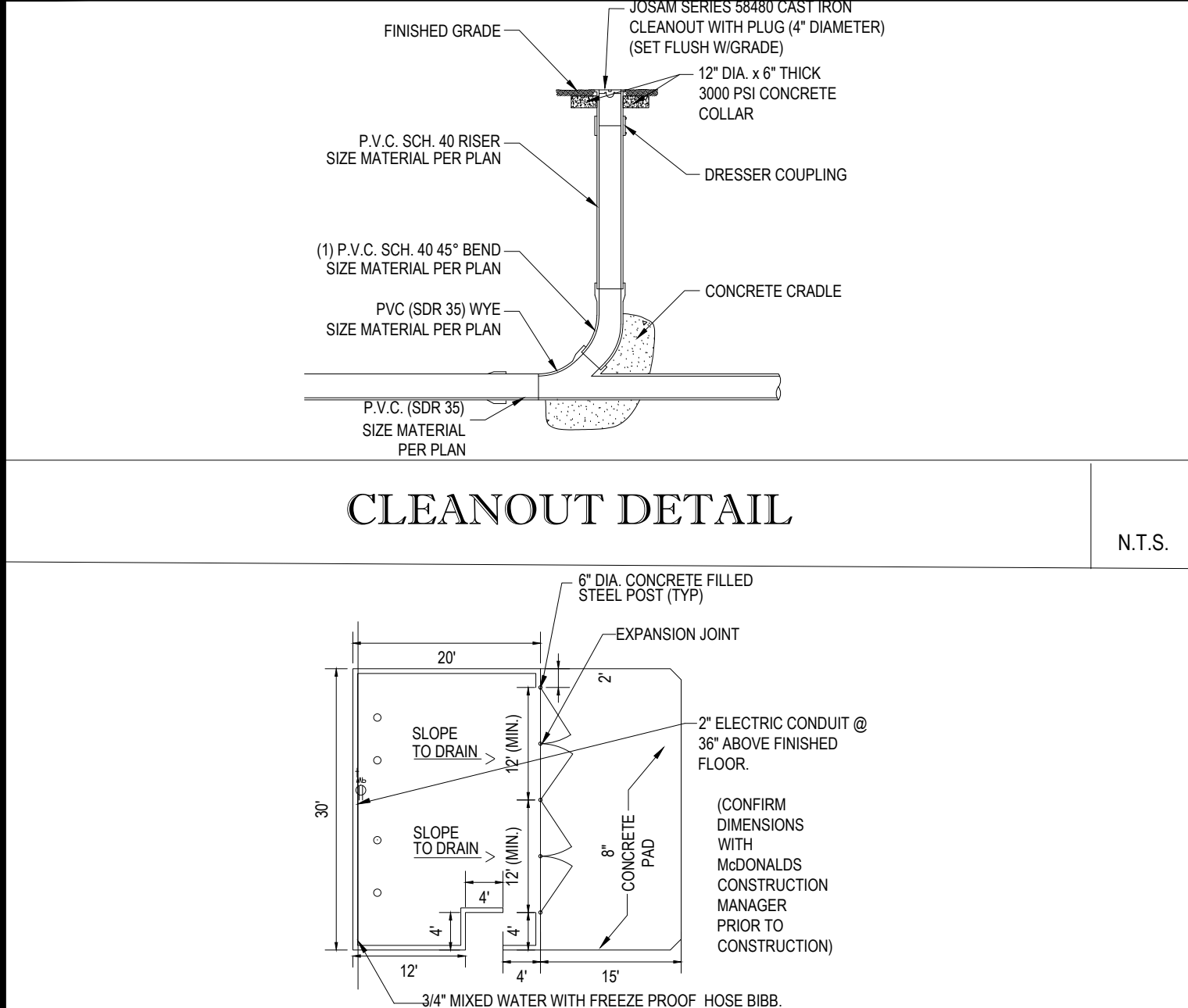
TRASH ENCLOSURE GATE POST DETAILS



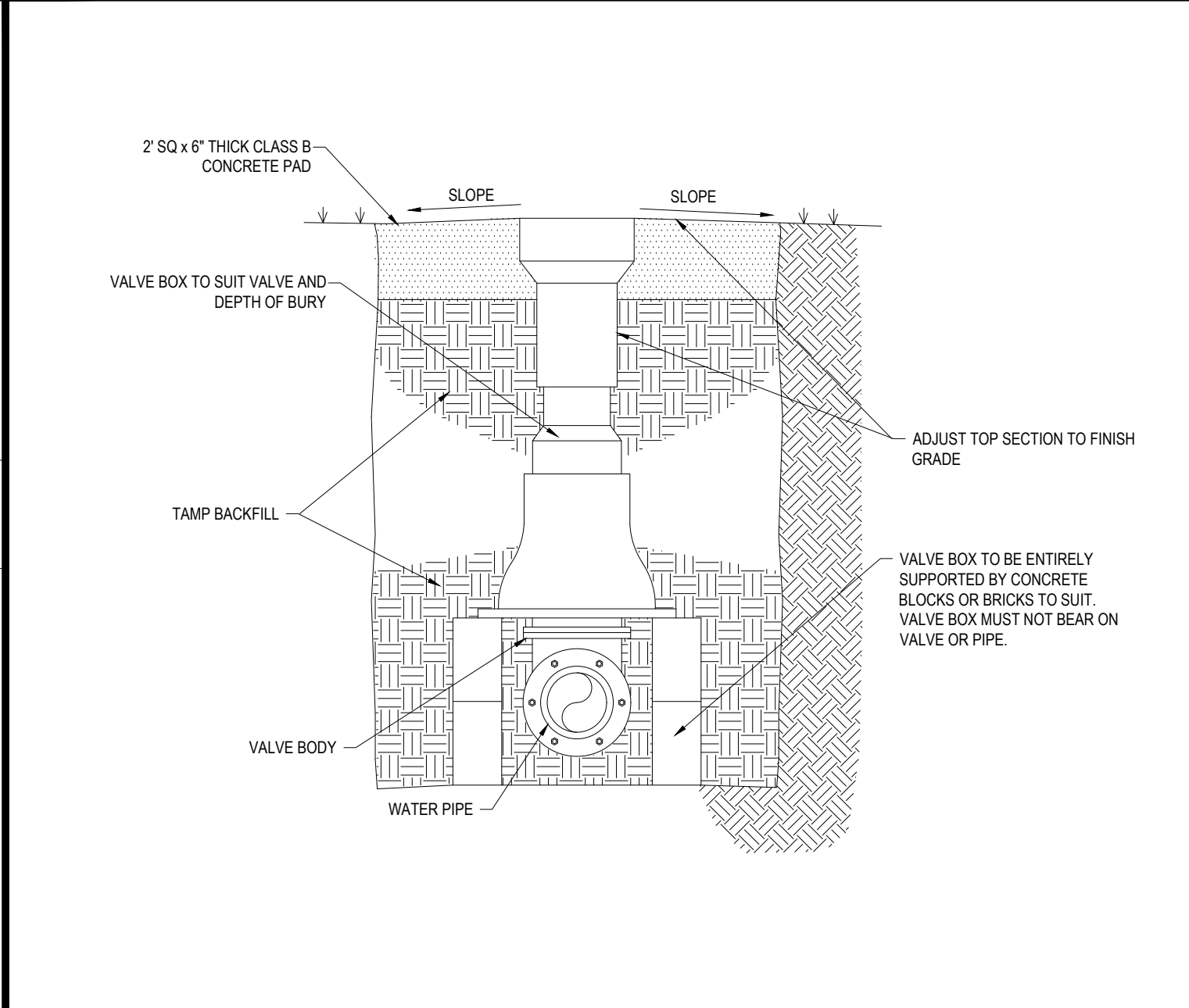
PRECAST GREASE TRAP 2,000 GAL./H.D.



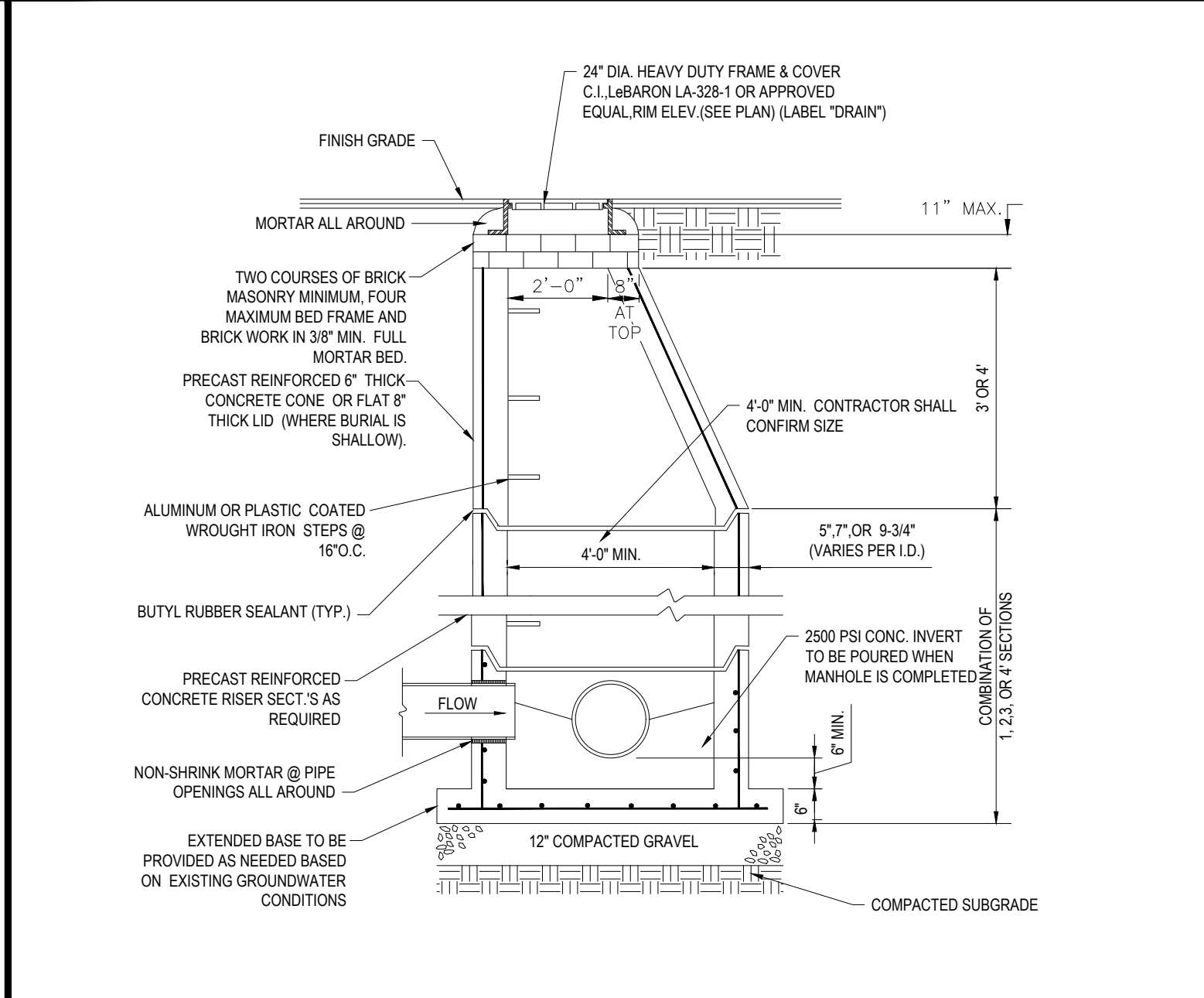
TYPICAL CONCRETE SIDEWALK



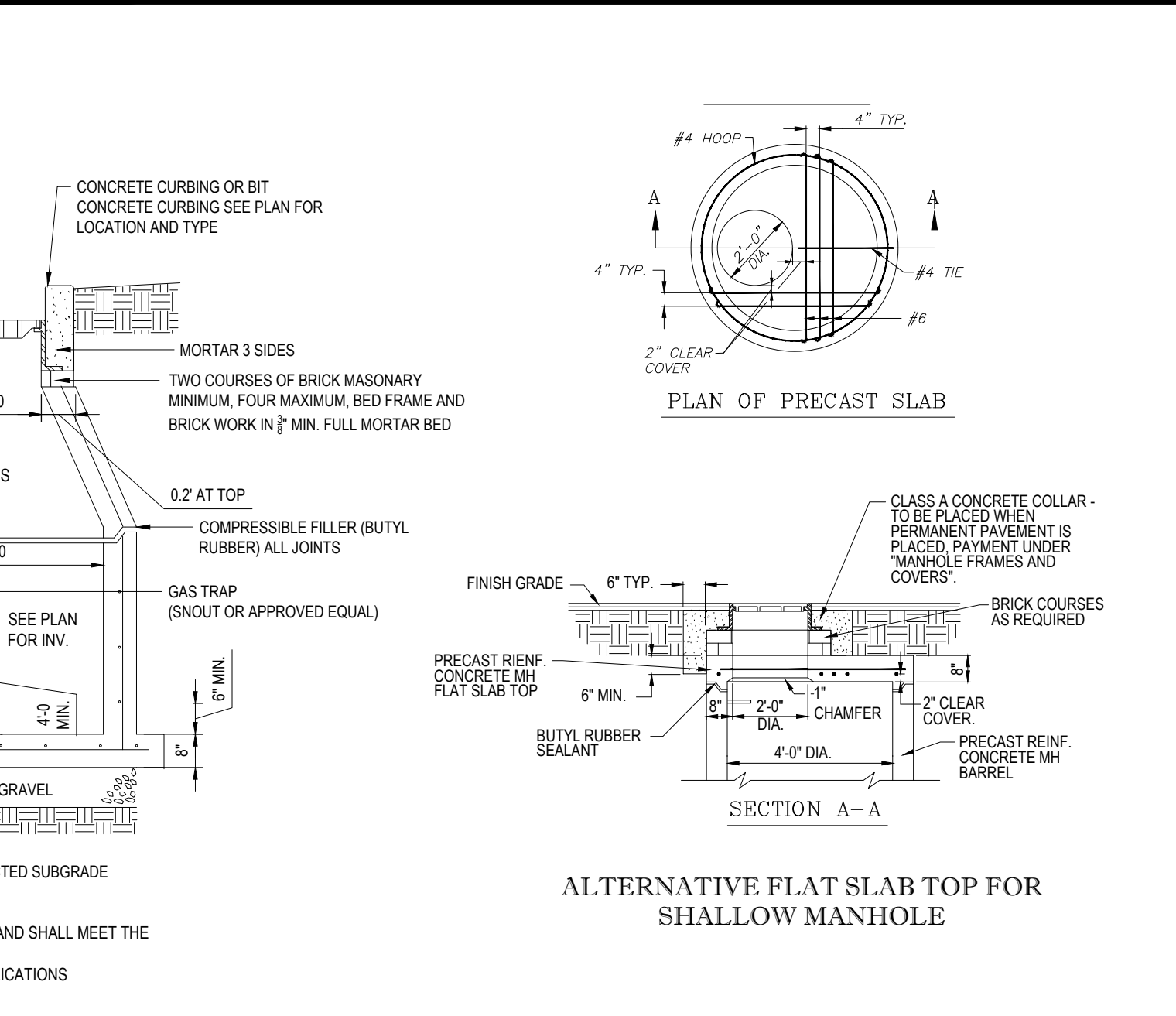
TRASH ENCLOSURE CORRAL LAYOUT



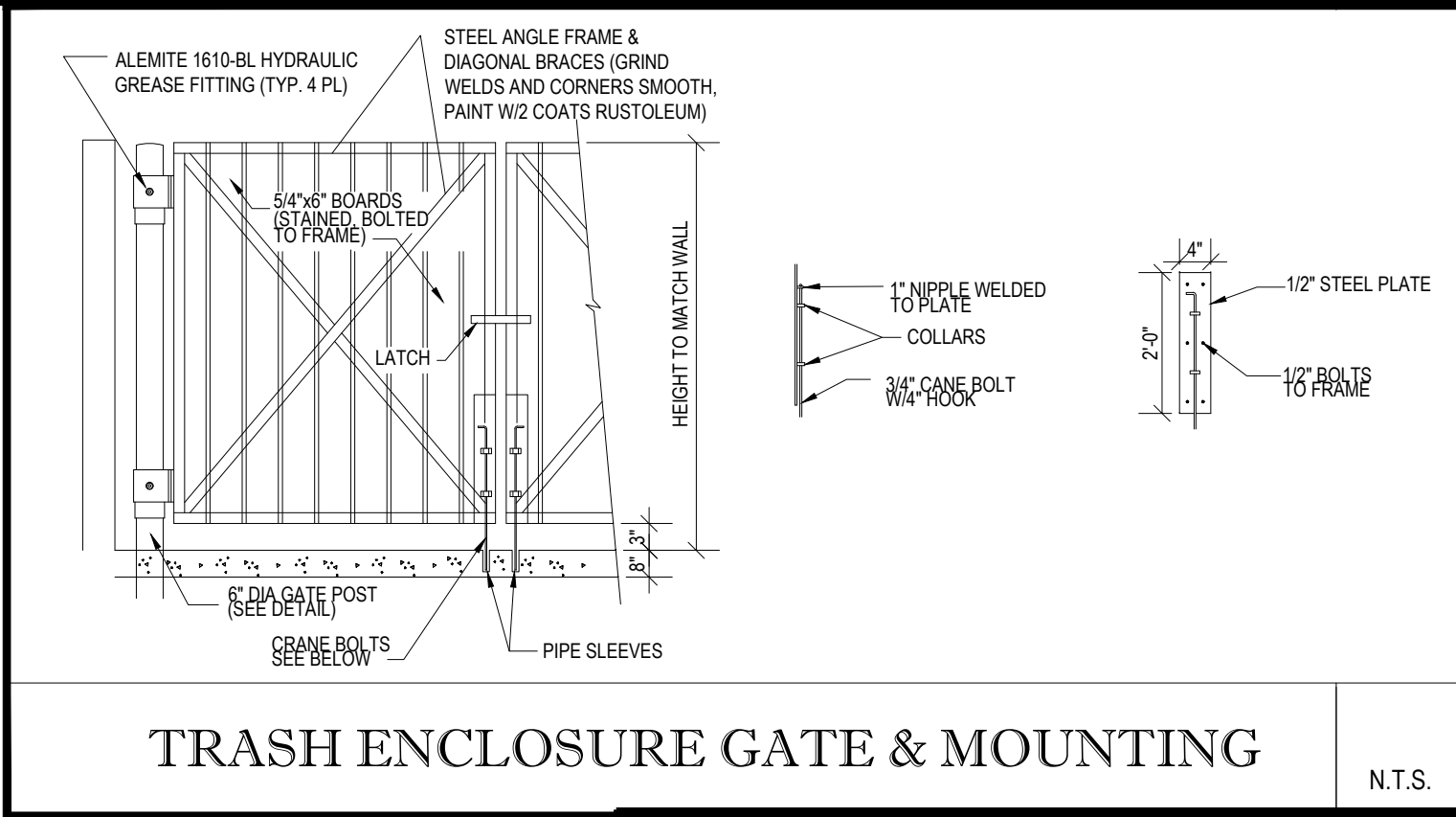
GATE VALVE



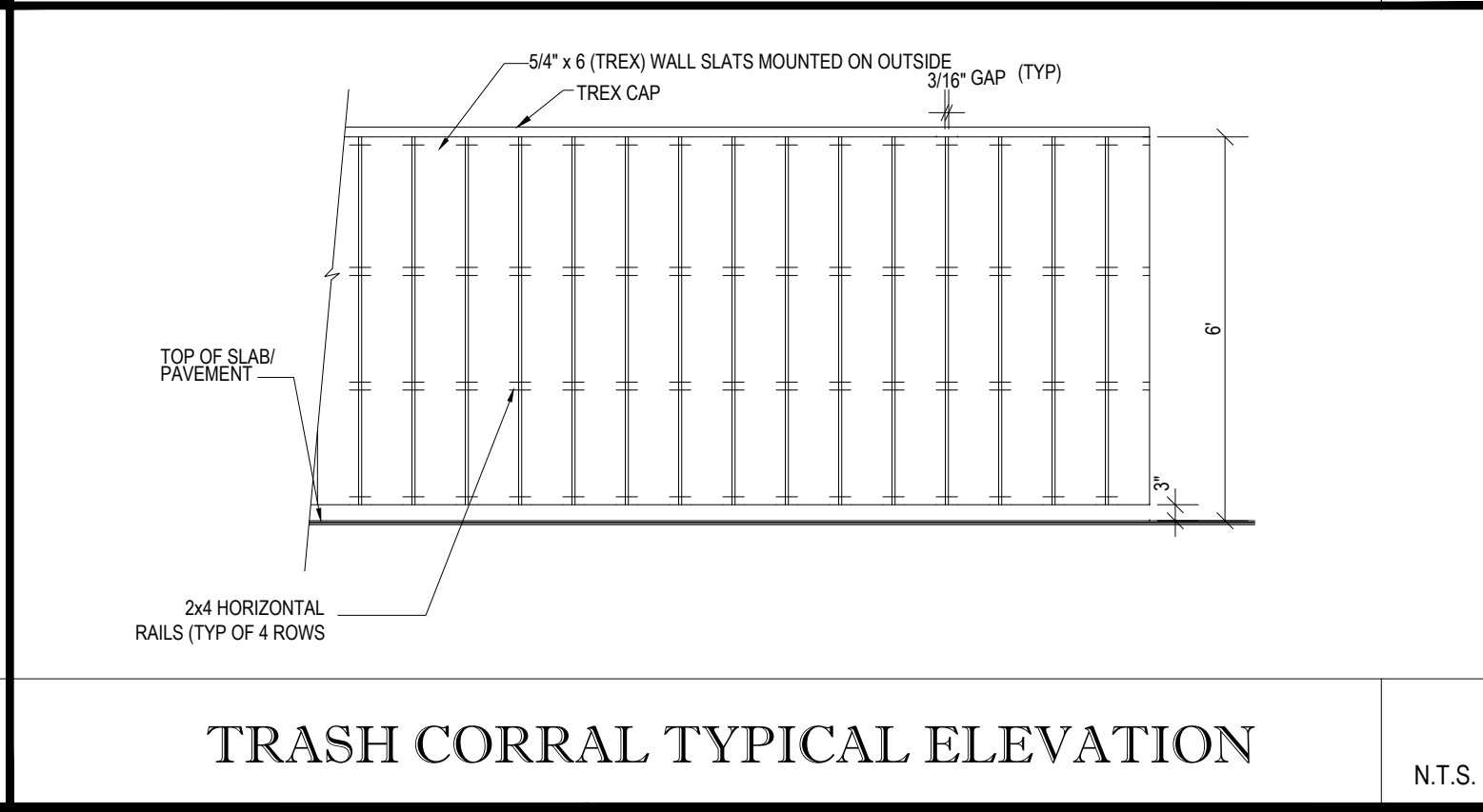
TYP. PRECAST CONC. STORM DRAIN MANHOLE



PRECAST CONCRETE DEEP SUMP CATCH BASIN



TRASH ENCLOSURE GATE & MOUNTING



TRASH CORRAL TYPICAL ELEVATION

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

COMPLIANCE CHECK		DATE
CONSTRUCTION CHECK		DATE
CONSTRUCTION CHECK		DATE
PROJECT No.: W212011		
CAD I.D. #: W212011-CVL-4.dwg		
ISSUED FOR BID		
STREET ADDRESS 808 MAIN STREET		
CITY MILLIS	STATE MA	
COUNTY NORFOLK		
SITE I.D. 020-0203	PLAN DESCRIPTION DETAIL SHEET	

BY	DATE	REV	DESCRIPTION
CSE	10/04/2021	1	REVISED PER BUILDING SIGNAGE UPDATE
CSE	11/15/2021	2	REVISED PER PLANNING BOARD AND BOARD OF HEALTH COMMENTS
CSE	12/31/2021	3	REVISED FOR BID
CSE	2/1/2022	4	REVISED FOR DOMESTIC WATER SERVICE LINE

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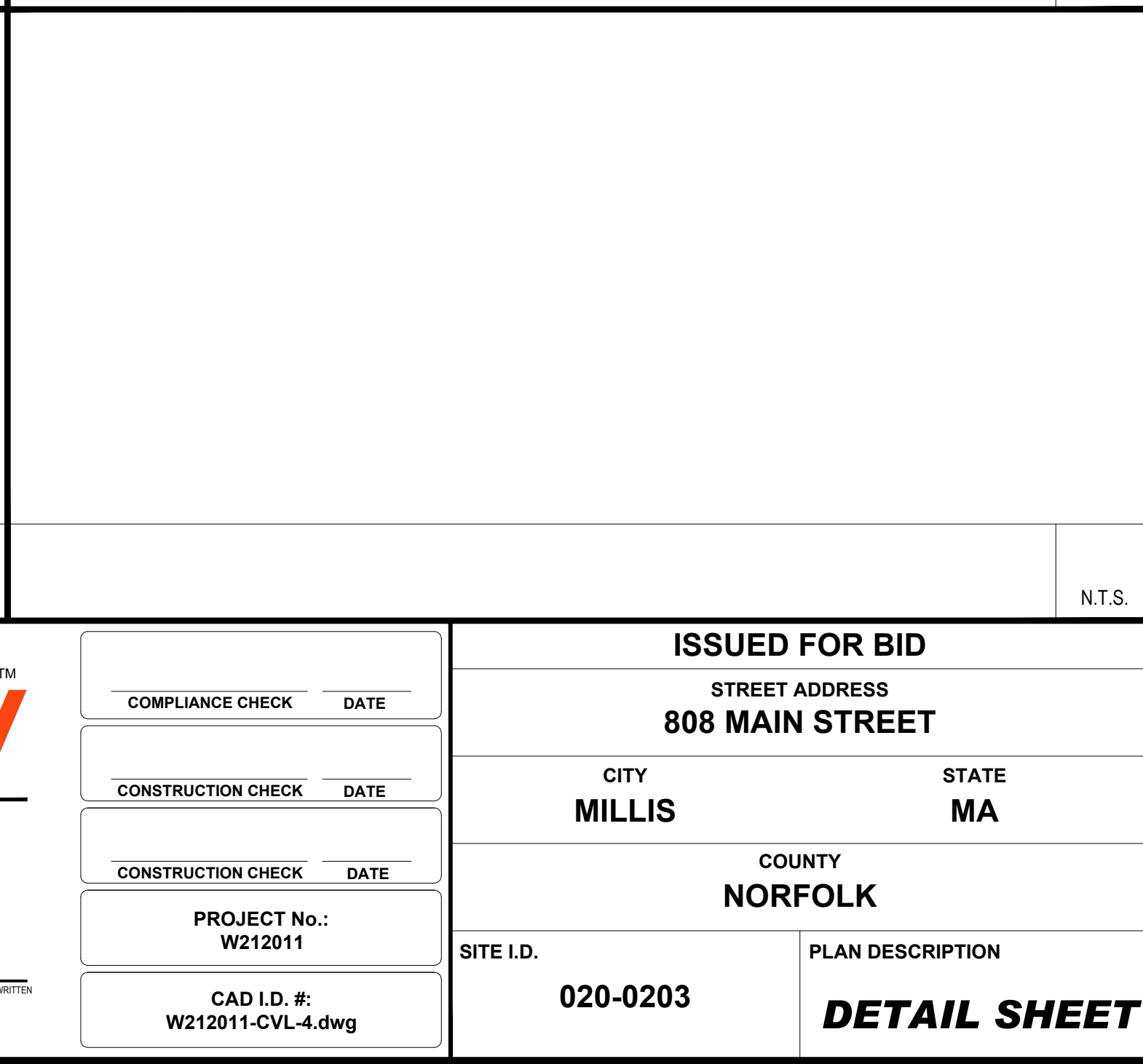
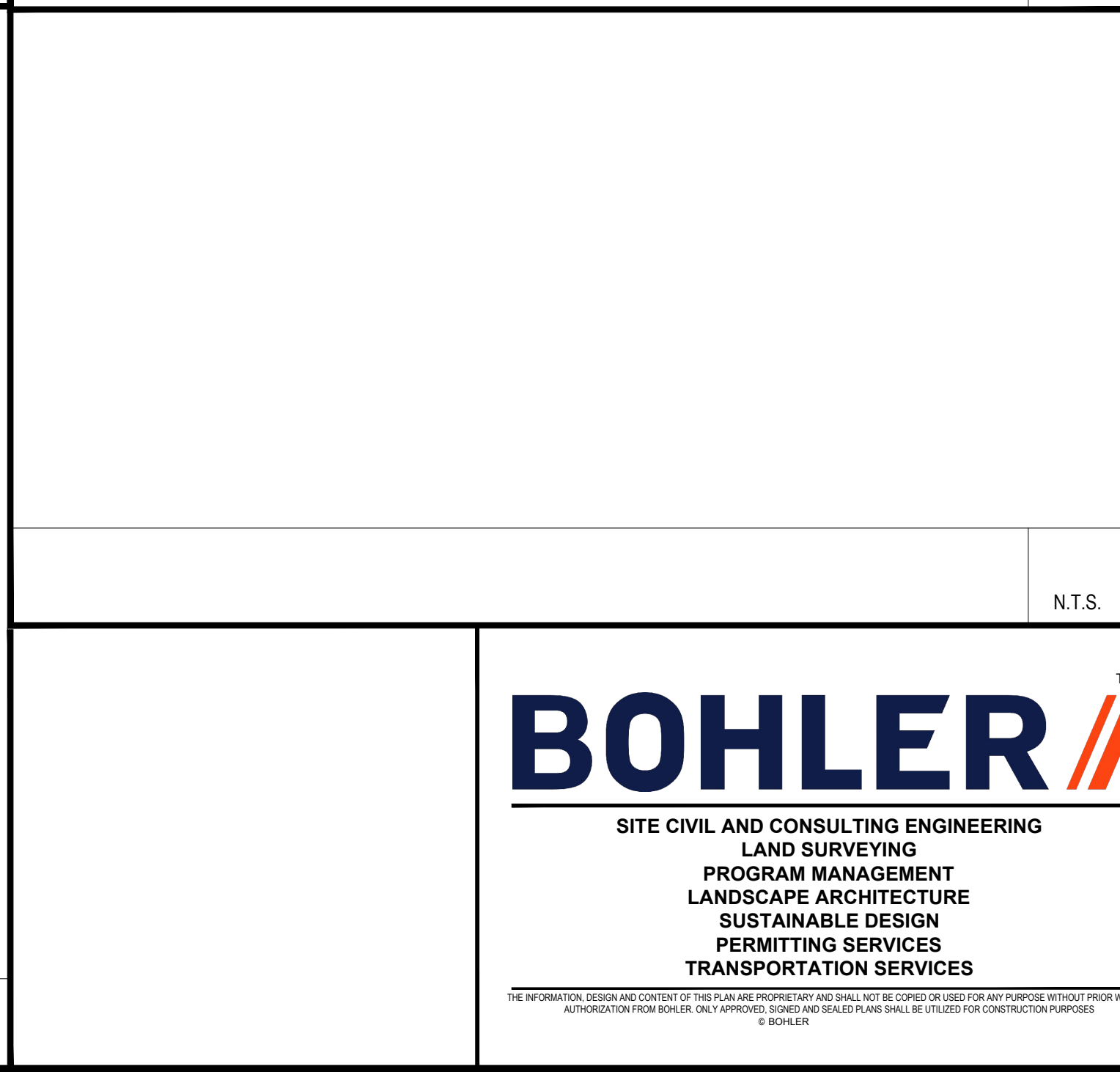
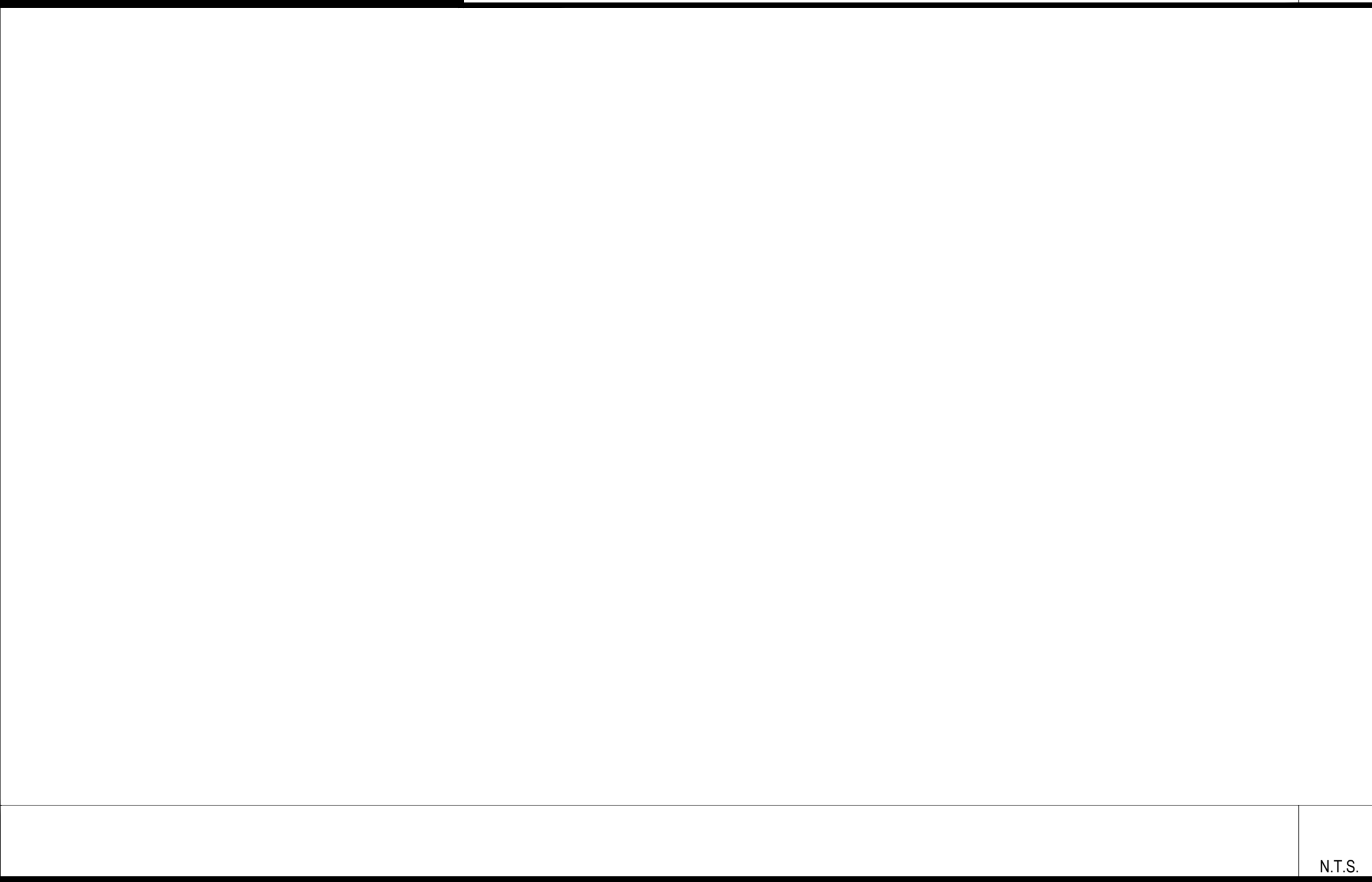
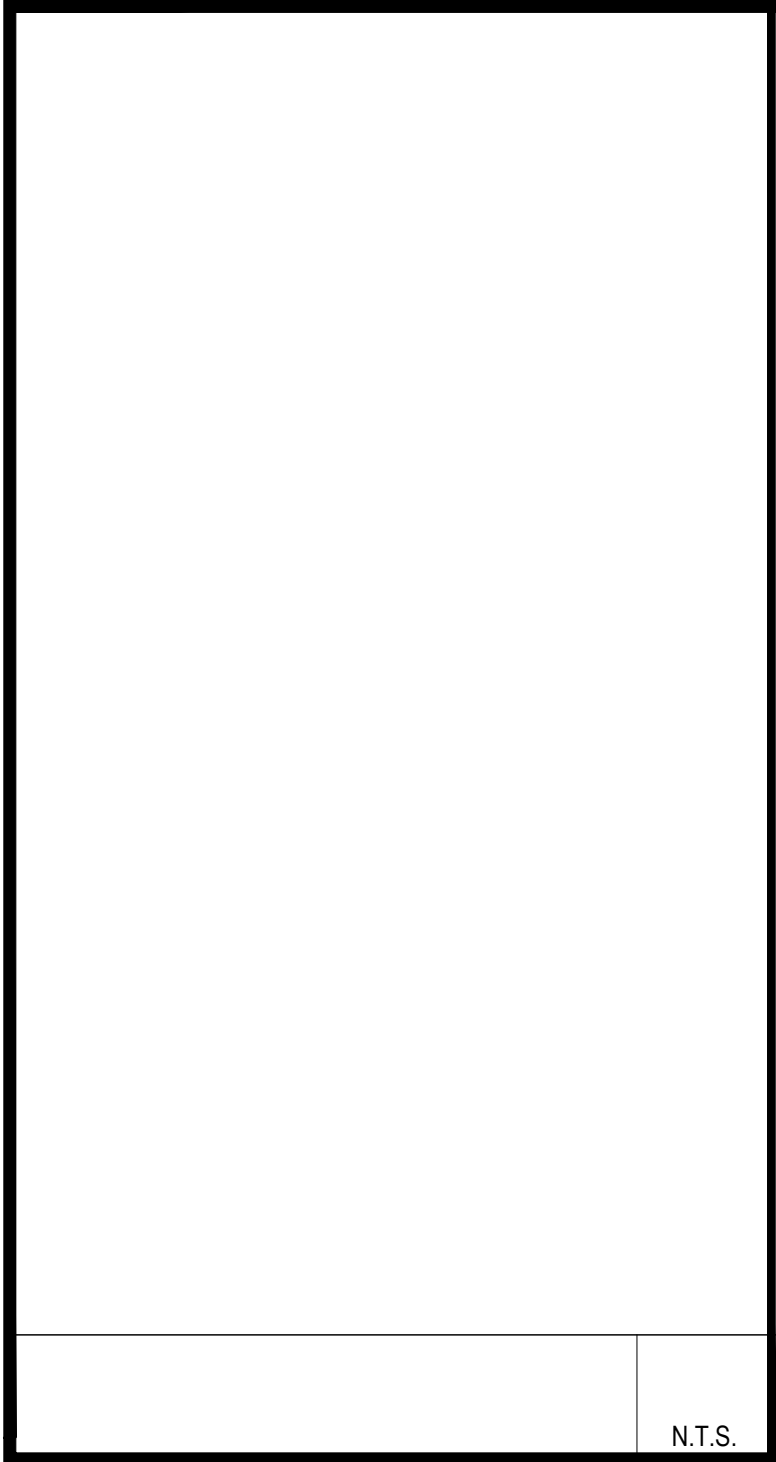
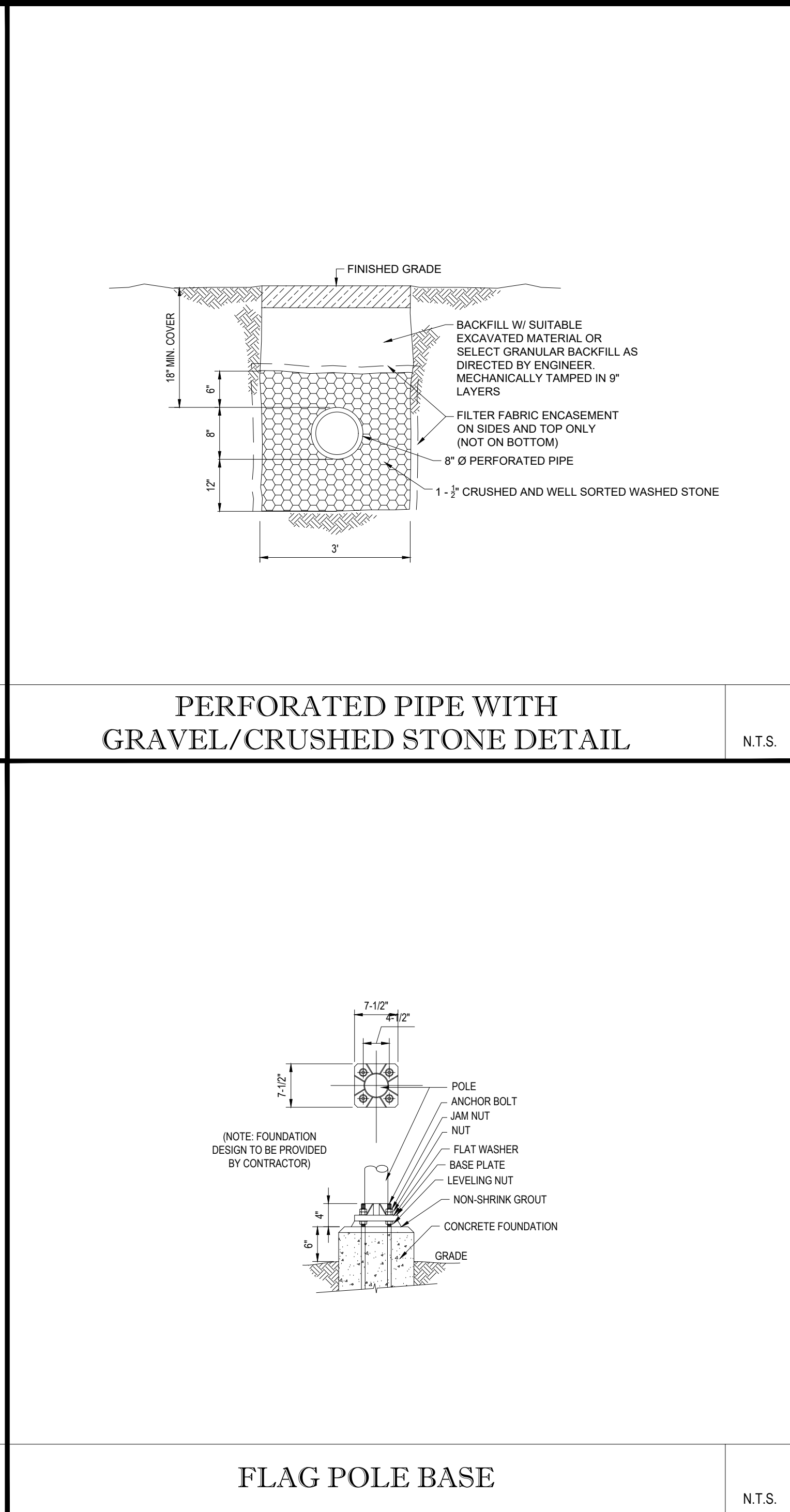
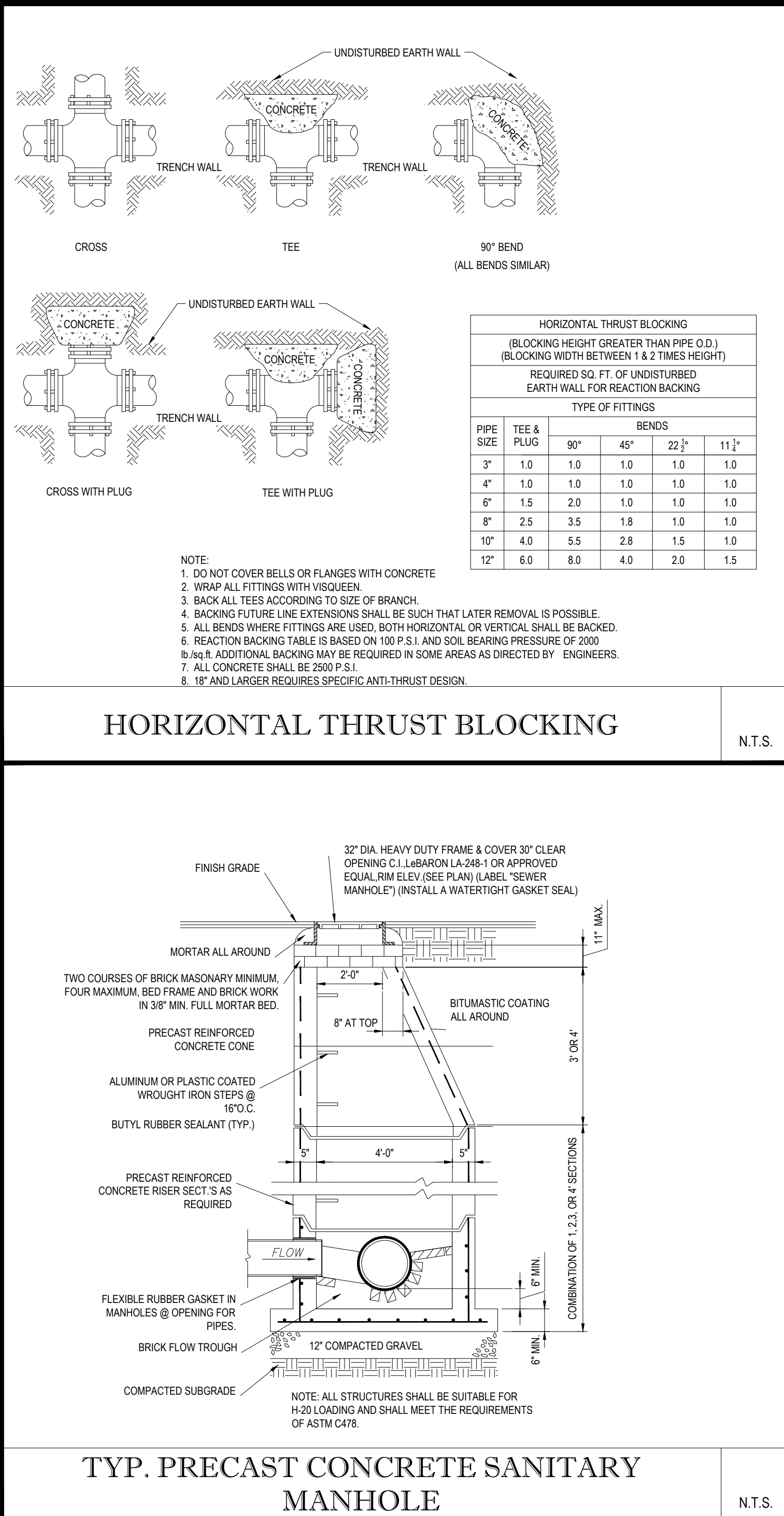
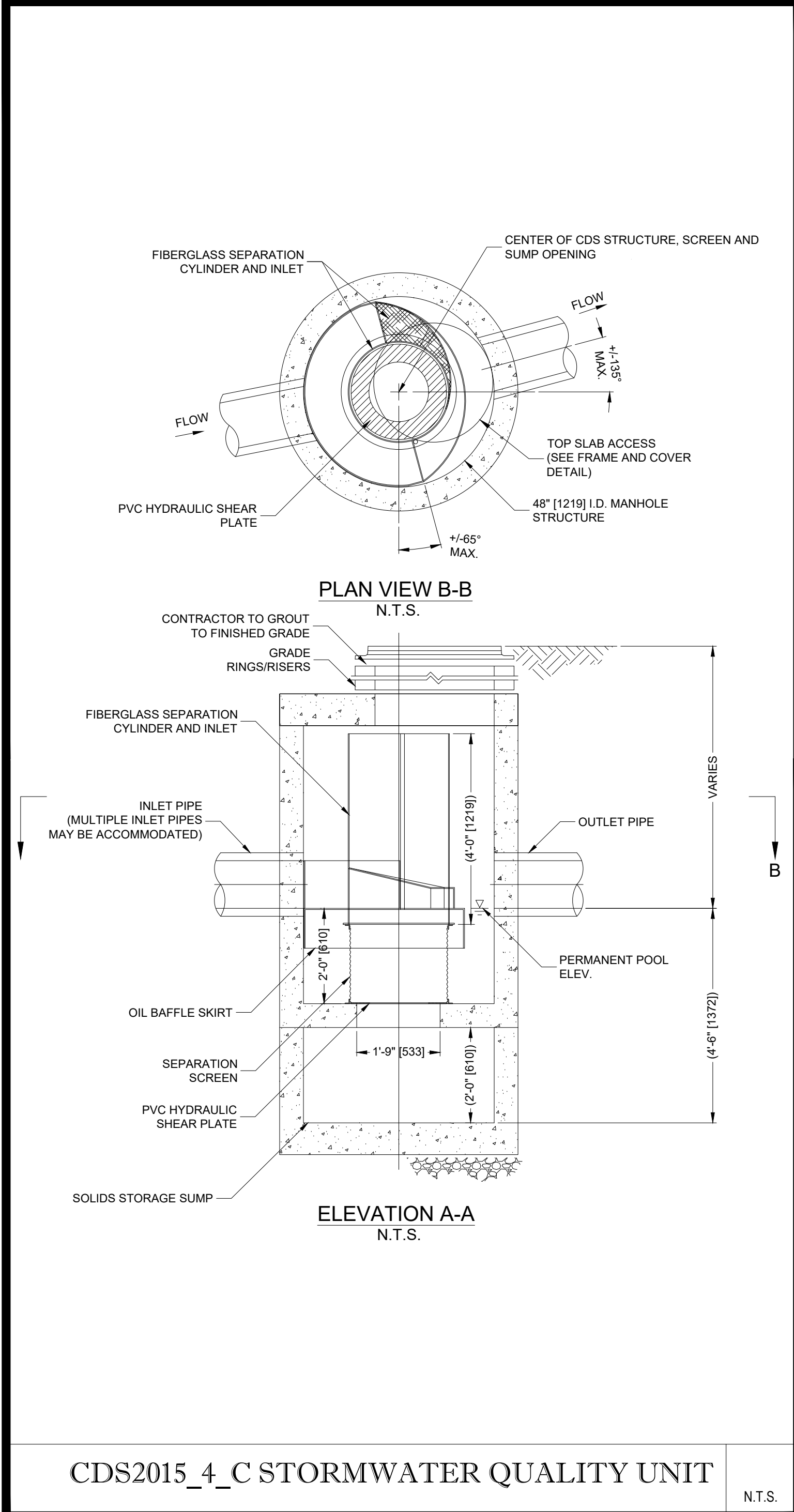
BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60607

PLAN APPROVALS	SIGNATURE	DATE
APPROVED MCDONALD'S AGENT		

STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		
SHEET NO.	C-903 OF 15	

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BY	DESCRIPTION	DATE	REV
CSE	REVISED PER BUILDING SIGNAGE UPDATE	10/04/2021	1
CSE	REVISED PER PLANNING BOARD AND BOARD OF HEALTH COMMENTS	11/15/2021	2
CSE	REVISED FOR BID	12/31/2021	3
CSE	REVISED FOR DOMESTIC WATER SERVICE LINE	2/1/2022	4

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PLAN APPROVALS	SIGNATURE	DATE	APPROVED McDONALD'S AGENT

STATUS	DATE	BY
DRAWN BY:	07/13/21	CSE
PLAN CHECKED	07/13/21	JAK
AS-BUILT		

SHEET NO.
C-904 OF 15

BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

COMPLIANCE CHECK DATE
CONSTRUCTION CHECK DATE
CONSTRUCTION CHECK DATE

PROJECT No.: W212011
CAD I.D. #: W212011-CVL-4.dwg

ISSUED FOR BID
STREET ADDRESS
808 MAIN STREET

CITY STATE
MILLIS MA

COUNTY
NORFOLK

SITE I.D. PLAN DESCRIPTION
020-0203 **DETAIL SHEET**

